The Weather

Today: Cooler, 67°F (19°C) Tomorrow: Sunny, 71°F (22°C) Details, Page 2

Volume 127, Number 39 Cambridge, Massachusetts 02139 Tuesday, September 18, 2007

Overenrolled 3.091 Will Remain Freshman Class FEE, In 10-250 But Stream to 26-100 Math Diagnostic, ASE

By Valery K. Brobbey

With students in 3.091 (Introduction to Solid-State Chemistry) outnumbering seats in 10-250, where the subject is traditionally taught, course administrators have decided to add live video streaming of the lectures in 26-100.

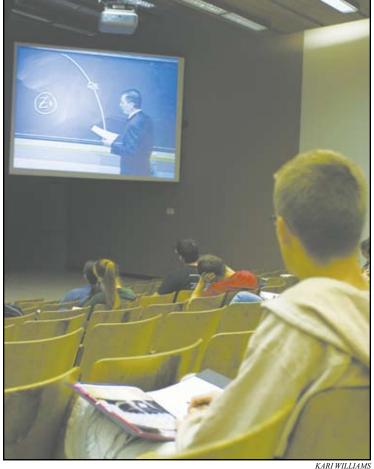
There are currently 570 students enrolled in 3.091, but 10-250 only has 450 seats, according to Christopher D. DiGuardia of the Registrar's

In prior years when course enrollment spiked, 3.091 Professor Donald R. Sadoway said that he taught a 1 p.m. lecture in addition to the usual 11 a.m. lecture. "It was very exhausting because I had to give a second lecture and make two different tests of equal difficulty that covered the same material," he

Another solution would have been to move lectures for the class to the larger 26-100, which seats 566, but that room "is not a pleasant place to teach in," said Sadoway. He said he thinks it is hard to engage the students in 26-100 because there is a "big gulf between where the professor stands and the front row," there is limited board space, and "audio visual facilities are way behind the time."

Room 10-250 fills up at about 11:02 a.m., three minutes before the

3.091, Page 15



Benjamin M. Judge '11 listens to a 3.091 lecture in 26-100 via live video from 10-250. The 570 students in Professor Donald R. Sadoway's popular introductory solid state chemistry class exceed 10-250's 450-person capacity, so some students must attend a video lecture.

Results Don't Surprise

Freshmen in the Class of 2011 fared comparably to last year's freshmen on the Freshman Essay Evaluation, Advanced Standing Exams, and Math Diagnostic for Physics Place-

With the exception of Advanced Placement Biology credit which is no longer being accepted in place of the introductory biology course, this year's freshmen also earned similar amounts of AP credit for passing out of General Institute Requirements. (See tables on pages 1 and 17.)

For the first time, math diagnostic exams were used not only as recommendations for freshmen enrollment in 8.01, 8.012, or 8.01L (Physics I) but also as a way to determine which

freshmen were given spots in 8.012. This year, the number of seats

available for the 8.012 lecture limited how many students could enroll in the class to approximately 150, said Physics Academic Administrator Brian E. Canavan. The 8.012 lecture takes place in 6-120 not because of a lack of larger rooms, Canavan said, but rather because the physics department wanted to teach the class in a lecture hall close to where equipment for class demonstrations are stored.

To determine which freshmen would be given spots in 8.012, freshmen interested in the course were ordered by their math diagnostic scores, and the 17 freshmen with the lowest scores - scores in the mid 70s and below — were put on a waitlist for the class, Canavan said.

Freshman Tests, Page 17

Results of Freshman Essay Evaluation

	Class of			
HASS Class	2011	2010	2009	2008
CI-H or CI-HW	62%	61%	58%	72%
CI-HW required	32%	33%	36%	23%
21F.222 required	5%	6%	6%	5%
Number of students				
who took the FEE	849	801	775	900

SOURCE: LESLIE C. PERELMAN, DIRECTOR OF WRITING ACROSS THE CURRICULUM A total of 849 students in the Class of 2011 took the FEE; some students passed out by scoring a 5 on one of the Advanced Placement English exams, and some chose not to take the evaluation but just take a CI-HW subject.

Receiving Prize Check For Winning Energy Challenge

After a six-month delay, the Biodiesel@MIT team received their \$25,000 winnings on Sept. 14 from General Electric and mtvU for winning the Ecomagination Challenge for college students in March.

Biodiesel@MIT, a group of MIT students, faculty, and staff, are working to install a biodiesel processor on campus to recycle used vegetable oil from campus dining facilities into biodiesel fuel usable by the Tech and SafeRide Shuttles. The team submitted the winning proposal on biodiesel for GE and mtvU's Ecomagination Challenge, a collegiate competition designed to encourage environmental sustainability.

Britta Barrett, a GE spokeswoman, attributed the six-month delay to bureaucratic red tape. "The process for payment at any large corporation

In Short

¶ This month's faculty meeting is tomorrow, Sept. 19, 3:30-5:30 p.m. in 32-141. The agenda includes a discussion of MIT's 2007-08 initiatives, a report from the Initiative on Faculty Race and Diversity (Prof. Paula T. Hammond, chair), and the usual Topics and Questions. Open to the MIT community.

¶ Career Fair is Thursday in Johnson Athletic Center, sponsored by the class of 2008, GSC, and SWE.

¶ The final exam schedule comes out on Thursday. See http://web. mit.edu/registrar for details.

Send news information and tips to news@the-tech.mit.edu.

goes through a variety of approvals and processes to comply with legal and sourcing standards," she said. "There was a glitch within this process that was not anticipated by GE or mtvU.'

Team leader Joseph D. Roy-Mayhew '08 said that the biodiesel processor itself, used to convert used vegetable oil from campus dining facilities into biodiesel, would cost around \$12,000. The team is also looking to spend from \$5,000 to \$8,000 on solar panels to power the processor and increase its environmental friendliness.

The money, had by the team on time, would not have been spent over the summer anyway, Roy-Mayhew said, because the team has yet to secure a suitable location for the processor. The biodiesel processor requires 25 square feet of space, cold running water, electricity, and preferably access to a sewer. "We submitted four promising sites to the Committee for the Review for Space Planning," he said. He declined to state what the four locations were because they had not yet been approved.

The first site considered has a

Biodiesel, Page 18

Biodiesel@MIT Delayed in | PDSI Construction Nears Completion; **Buildings Consolidate Physics Dept.**

By Yan Huang

The construction of a new physics building that will unify the department's offices and related renovations of Buildings 2, 4, 6, and 8 are nearing completion after two years of work.

Unexpected contamination in the soil caused a delay in construction, which combined with initial delay due to budget approval, pushed the finish date from spring 2007 to fall 2007, said construction manager Milan Pavlinic.

The contamination problems are also expected to raise the final cost of the building above the originally allocated number of around \$50 million Paylinic said

Minor tasks remaining will be finished in time for the opening celebration at 3:30 p.m. in the new building, 6C, on Oct. 5, 2007.

The construction project consolidated the Department of Physics, which had been spread over 13 buildings, into the new building 6C and neighboring buildings.

In a move of "unprecedented cooperation" between departments, the administrative offices for the Department of Materials Science and Engineering and for the Department of Physics swapped places as part of the project, said Sean P. Robinson, space and renovation manager for the Department of Physics. The new physics headquarters is now located on the third floor of Building 8 and Materials Science and Engineering headquarters is on the first floor of Building 6.

The Spectroscopy Laboratory

displaced by Building 6C moved into new laboratories in the basement of Building 6A.

The new physics building "succeeded at a balance between open-

PDSI, Page 18



MIT's newest building, 6C, is integrated with the rest of the Main Group buildings through an atrium full of footbridges.

Senior documents life, work in developing countries.

Page 9

News

At Berkeley, protests occur over plan to cut down trees.

Page 20 Harvard endowment head to leave. Page 22 World & Nation 2

Page 2 THE TECH September 18, 2007

World & Nation

Massachusetts to Consider Three Casinos

By Katie Zezima

THE NEW YORK TIMES

BOSTON

Gov. Deval L. Patrick unveiled a proposal on Monday to allow three resort-style casinos in Massachusetts. The revenues, he said, would help the commonwealth pay for road and bridge and repair, and provide property tax relief to homeowners.

If the state Legislature approves the plan, the casinos would be built in the metropolitan Boston area and in western and southeastern Massachusetts. Officials said they were expected to generate \$400 million in annual revenue for the state and create 20,000 permanent jobs by 2012.

"Casino gambling is neither a cure-all or the end of civilization," Patrick said at a news conference. "On balance, however, and under certain conditions, I believe resort casinos can and will work well in and for the Commonwealth."

Nationally, more and more states are turning to casinos as a source of revenue.

In April, Gov. Kathleen Sebelius of Kansas signed a law allowing up to four state-owned resort-style casinos. In February, Gov. Eliot Spitzer of New York approved plans for a \$600 million casino in the Catskills to be run by the St. Regis Mohawk tribe. Last year, Pennsylvania approved the construction of 11 slots-only casinos.

IBM Challenges Microsoft With Free Software

By Steve Lohr

THE NEW YORK TIMES

IBM plans to mount its most ambitious challenge in years to Microsoft's dominance of personal computer software, by offering free programs for word processing, spreadsheets and presentations.

The company is announcing the desktop software, called IBM Lotus Symphony, at an event on Tuesday in New York. The programs will be available as free downloads from the IBM Web site.

IBM's Lotus-branded proprietary programs already compete with Microsoft products for e-mail, messaging and work group collaboration. But the Symphony software is a free alternative to Microsoft's mainstay Office programs — Word, Excel and PowerPoint. The Office business is huge and lucrative for Microsoft, second only to its Windows operating system as a profit maker.

In the 1990s, IBM failed to compete head-on with Microsoft in personal computer software with its OS/2 operating system and its Smart-Suite office productivity programs.

IBM is taking a different approach this time. Its offerings are versions of open-source software developed in a consortium called OpenOffice.org.

Times to Stop Charging For Parts of Its Web Site

THE NEW YORK TIMES

The New York Times will stop charging for access to parts of its Web site, effective at midnight on Monday, reflecting a growing view in the industry that subscription fees cannot outweigh the potential advertising revenue from increased traffic on a free site.

The move comes two years to the day after *The Times* began the subscription program, TimesSelect, which has charged \$49.95 a year, or \$7.95 a month, for online access to the work of its columnists and to the newspaper's archives. TimesSelect has been free to print subscribers to The Times, and to some students and educators.

In addition to opening the entire site to all readers, *The Times* will also make available its archives from 1987 to the present without charge, as well as those from 1851 to 1922, which are in the public domain. There will be charges for some material from the period 1923 to 1986, and some will be free.

Dems Warn They May Delay Approval of Bush's Nominee

By Sheryl Gay Stolberg and David M. Herszenhorn

THE NEW YORK TIMES

WASHINGTON

Two Senate Democrats warned Monday that they might delay confirming President Bush's choice to be the next attorney general unless the White House turns over documents relating to several investigations, a move that could provoke the kind of confirmation fight the administration was hoping to avoid.

Bush announced the selection of Michael B. Mukasey, a retired federal judge from New York who has presided over several high-profile terrorism trials, during a morning Rose Garden ceremony. He urged the Senate to confirm Mukasey promptly as the nation's 81st attorney general, succeeding Alberto R. Gonzales, who tendered his resignation last month under withering attacks from Democrats on Capitol Hill.

"Judge Mukasey is clear-eyed about the threat our nation faces," Bush said, with the 66-year-old former jurist by his side. "As a judge and a private lawyer, he's written on matters of constitutional law and national security. He knows what it takes to

fight this war effectively."

If confirmed, Mukasey would take over a department that has been burdened by the weight of congressional inquiries into the firing of federal prosecutors and the administration's domestic wiretapping program. In brief remarks after Bush spoke, he pledged to give the Justice Department's lawyers "the support and the leadership they deserve."

At a time when Democrats are bitterly at odds with the administration over the war in Iraq, the selection of Mukasey — a Washington outsider who met Bush for the first time during an hour-long interview at the White House on Sept. 1 — seemed to signal that the administration is looking to move past the partisanship that characterized Gonzales' tenure.

But two Democrats who will have a powerful say over whether Mukasey gets confirmed — Sens. Patrick J. Leahy of Vermont and Charles E. Schumer of New York — vowed on Monday to use the nomination to pressure the White House into turning over information the panel has been seeking on the domestic wiretapping program and its treatment of military detainees.

"All I want is the material we need to ask some questions about the former attorney general's conduct, on torture and warrantless wiretapping, so we can legitimately ask, 'Here's what was done in the past, what will you do?" Leahy, the chairman of the Judiciary Committee, which will hold Mukasey's confirmation hearings, told reporters.

Whether that is a negotiating tactic, or a threat that could turn into an all-out battle, was unclear on Monday. But Leahy did say he had told the White House counsel, Fred F. Fielding, that the nomination could not go forward without the information, and that "cooperation with the White House would be central" to scheduling hearings.

Schumer, for his part, seemed on Monday to take on the role of mediator between Leahy and the White House. On Sunday, Schumer — who first floated Mukasey's name with the White House as a potential Supreme Court nominee four years ago — praised Mukasey as a potential "consensus nominee." On Monday, he said he had told Fielding that the White House would have to resolve Leahy's concerns.

Baghdad Bans U.S. Contractor After Gunfire Kills Eight Iraqis

By Sabrina Tavernise

THE NEW YORK TIMES

Blackwater USA, an American contractor that provides security to some of the top American officials in Iraq, has been banned from working in the country by the Iraqi government after a shooting that left eight Iraqis dead and involved an American diplomatic convov

BAGHDAD

A spokesman for Iraq's Ministry of Interior, Brig. Gen. Abdul Karim Khalaf, said that authorities had canceled the company's license and that the government would prosecute the participants. But under the rules that govern private security contractors here, the Iraqis do not have the legal authority to do so.

The shooting took place in Baghdad on Sunday, but the details were still unclear, and American officials stopped short of saying whether the Blackwater guards in the diplomatic motorcade had caused any of the deaths. Bombs were going off in the area at the time, and shots were fired at the convoy, American officials said.

"There was a firefight," said Sean McCormack, the principal State Department spokesman. "We believe some innocent life was lost. Nobody wants to see that. But I can't tell you who was responsible for that."

The deaths struck a nerve with Iraqis, who say that private security firms are often quick to shoot and are rarely held responsible for their actions. A law issued by the American authority in Iraq before the United States handed over sovereignty to Iraqis, Order No. 17, gives the companies immunity from Iraqi law. A security expert based in Baghdad said on Monday night that the order, issued in 2004, had never been overturned. Like others, he spoke on the condi-

tion of anonymity because the matter remains under official inquiry.

Senior officials, including Prime Minister Nouri Kamal al-Maliki, expressed outrage.

"This is a big crime that we can't stay silent in front of," said Jawad al-Bolani, the interior minister, in remarks on Al Arabiya television. "Anyone who wants to have good relations with Iraq has to respect Iraqis. We apply the law and are committed to it."

Secretary of State Condoleezza Rice called al-Maliki on Monday afternoon to express her regret "over the death of innocent civilians that occurred during the attack on an embassy convoy," said Tom Casey, another State Department spokesman.

Al-Maliki's office said Rice had pledged to "take immediate steps to show the United States' willingness to prevent such actions."

A Place in the Sun

By Mike Yee

After this past weekend's cooler weather, we can expect temperatures to rise for the next few days. A high pressure system is keeping the New England skies clear, so look forward to plenty of sun on this beautiful September afternoon. The lack of cloud cover and subsequent radiation cooling will contribute to an overnight low in the lower 50s°F.

While we bask in the pleasant weather, storms are brewing elsewhere in the country. A cold front cuts across the upper Midwest, accompanied by moderate rainfall and scattered thunderstorms around the Great Lakes. As the week progresses, the system will be swept north and east, moving into Canada and away from Boston.

For the near future, high pressure will remain over the New England region, prolonging our current state of fair weather. The warming trend will continue through Wednesday, resulting in a daytime high in the low 70s°F. Another brisk night will give way to a balmy Thursday, when temperatures will reach the 80s°F before cooling again.

Extended Forecast

Today: Cooler than average, but plenty of sun. High 67°F (19°C).

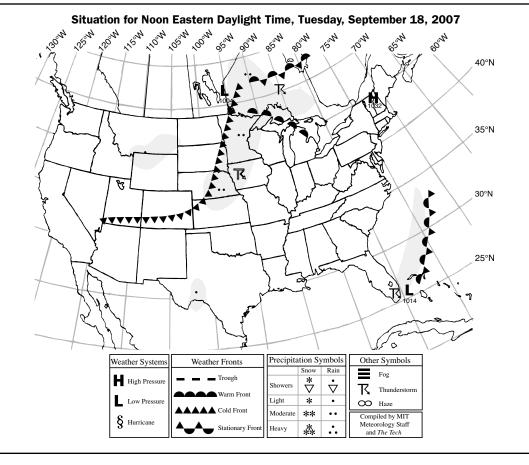
Tonight: Brisk, with clear skies. Low 51°F (11°C). **Wednesday:** Sunny and warmer. High 71°F (22°C). **Wednesday night:** Scattered clouds. Low 59°F (15°C).

Thursday: Significantly warmer, mostly sunny. High 80°F (27°C).

Thursday night: Partly cloudy. High 61°F (16°C).

Saturday: Hail ... to the victors! Penn State 17, Michigan 21.

WEATHER



Clinton Unveils New Proposal For Universal Health Insurance

By Patrick Healy and Robin Toner

THE NEW YORK TIMES

DES MOINES, IOWA

Sen. Hillary Rodham Clinton unveiled a plan on Monday to guarantee health insurance to all Americans, but in a way carefully designed to avoid nearly every major political flaw in her failed proposal of 1993-

In the new plan, Clinton promised to cover everyone without big new bureaucracies, without a complicated reorganization of one-seventh of the U.S. economy and without affecting Americans who are insured and happy with their coverage - all features that helped doom the Clinton administration's plan 14 years ago.

In what her advisers hoped would be the final stage of a long political rehabilitation on the issue, Clinton told her audience here that she had been scarred by the old battle but had gained some valuable lessons.

"I learned that people who are satisfied with their current coverage want assurances that they can keep it," Clinton said. "Part of our health care system is the best in the world,

and we should build on it; part of the system is broken, and we should fix

Like the plans put forth by her two main Democratic rivals, former Sen. John Edwards of North Carolina and Sen. Barack Obama of Illinois, the new Clinton plan would try to strengthen and build on the existing, employer-based system, through which most Americans under 65 already receive their coverage. Clinton would create new options for buying private or public insurance at affordable rates, require everyone to obtain insurance, and provide subsidies to small businesses and individuals who cannot afford it.

The plan, with a estimated cost of \$110 billion a year, would be financed largely by rolling back President Bush's tax cuts for Americans making over \$250,000 a year and by projected savings in the health care

The title of Clinton's proposal sums up her carefully calibrated new approach: "The American Health Choices Plan." It was clearly aimed at the middle-class Americans who feared that her last health plan would limit their choices, force them into health maintenance organizations and subject them to new government bureaucracies deciding what their benefits could be - fears stoked by a devastating campaign by the insurance industry.

Clinton's Republican rivals instantly denounced her new proposal as another exercise in "Hillarycare," with Mitt Romney declaring that she "takes her inspiration from European bureaucracies" and "fundamentally does not believe in markets and in the states." Romney, who as governor of Massachusetts himself signed into law a measure requiring all residents of his state to sign up for health insurance, and other Republican candidates acknowledge problems in the health care system but would rely more than Clinton and the other Democrats on the market, the states and tax credits to resolve them.

But a variety of health policy analysts said the change between Clinton 1 and Clinton 2 was striking. The first plan, for example, required people and employers to join new "regional alliances" to purchase their

Antitrust Ruling Against Microsoft May Bode III For Other Companies

and Steve Lohr

THE NEW YORK TIMES

LUXEMBOURG

Europe's second-highest court delivered a stinging rebuke to Microsoft on Monday, but the impact of the decision upholding an earlier antitrust ruling may extend well beyond the world's largest software maker to other high-technology companies.

Software and legal experts said the European ruling might signal problems for companies like Apple, Intel and Qualcomm, whose market dominance in online music downloads, computer chips and mobile phone technology is also being scrutinized by the European Commission.

"The decision is a strong endorsement for what in the United States would be considered aggressive policy on dominant firms," said Andrew I. Gavil, a law professor at Howard University. "And that's going to continue to play out in other kinds of cases."

The 13-member European Court of First Instance, in a starkly worded 244-page summary, reaffirmed ket power by adding a digital media player into Windows, undercutting the early leader, Real Networks.

It also ordered Microsoft to obey a March 2004 commission order to share confidential computer code with competitors. The court also upheld the record fine levied against the company, 497.2 million euros, or \$689.4 million.

But the court decision comes as the center of gravity in computing is shifting away from the software for personal computers, Microsoft's stronghold. Increasingly, the e-mailing or word-processing functions of a computer can be performed with software delivered on a Web browser. Other devices like cell phones are now used as alternates to personal computers

The real challenge to Microsoft, after more than a decade of dominating the technology industry, is coming not from the government, but from the marketplace.

The direct impact on Microsoft is small, said David B. Yoffie, a professor at the Harvard Business School. But there may be a longer-range consequence of having Microsoft under constant, open-ended scrutiny from Europe.

"If you end up handicapping a major player in new markets, you may actually not enhance competition but hinder it, and help create new monopolies," Yoffie said. "The obvious example is Google in Internet search and Apple in digital music."

Indeed, the Justice Department issued a statement expressing its concerns with the European decision, saying that tough restraints on powerful companies can be harmful. Thomas O. Barnett, assistant attorney general for the department's antitrust division, said that the effect "rather than helping consumers, may have the unfortunate consequence of harming consumers by chilling innovation and discouraging competition."

Consumer welfare, not protecting competitors, should be the guiding standard in antitrust, Barnett said.

Antitrust enforcement has often been criticized as too slow to grapple with fast-moving high-technology markets. Indeed, the media player market changed drastically during the years-long investigation in Eu-

Officials Say Israeli Raid Was Result Of Nuclear Aid to Syria From N. Korea

and Helene Cooper

THE NEW YORK TIMES

WASHINGTON

The Sept. 6 attack by Israeli warplanes inside Syria struck what Israeli intelligence believes was a nuclear-related facility that North Korea was helping to equip, according to current and former American and Israeli officials.

The details about the Israeli assessment emerged as China abruptly canceled planned diplomatic talks in Beijing that were intended to set a schedule to disband nuclear facilities in North Korea. The Bush administration has declined to comment on the Israeli raid, but American officials were expected to confront the North Koreans about their alleged support for Syria during those talks.

The officials said that the Israeli government notified the Bush administration about the planned attack just before conducting the raid. It is not clear whether Bush administration officials expressed support for the action or counseled against it.

have been the subject of intense speculation in Washington and Jerusalem, but the details remain extraordinarily murky. Officials said that access to new intelligence reports about suspected North Korean support to Syria has been confined to a very small group of officials in Washington and Jerusalem.

The details about the Israeli intelligence remain highly classified, and the accounts about Israel's thinking were provided by current and former officials who are generally sympathetic to Israel's point of view. It is not clear whether American intelligence agencies agree with the Israeli assessment about the facility targeted in the raid, and some officials expressed doubt that Syria has either the money or the scientific talent to launch a serious nuclear program.

But current and former American and Israeli officials who have received briefings from Israeli sources said on Monday that the raid was an attempt by Israel to destroy a site that Israel believed to be associated with Syria's rudi-

The allegations come at a particularly delicate time, with the United States and several Asian countries testing whether North Korea is serious about dismantling its nuclear production facilities and providing a full accounting of all its nuclear facilities, fuel and weapons.

North Korea tested a nuclear device last October, though the results were mixed at best.

At the same time. Israel is warv of complicating continuing peace talks involving other countries in the Middle East about the future of the Palestinian state. In particular, the Bush administration has not decided yet whether Syria will be invited to an upcoming Middle East peace conference that is supposed to be held in Washington in November. A tense Israel-Syria standoff would further complicate that decision, Israeli and American officials said.

The Sept. 6 strike came several days after a ship with North Korean cargo tracked by Israeli intelligence docked in a Syrian port, according to the current and former officials.

After Talk of War With Iran, **Cooler Words From France**

By Katrin Bennhold and Elaine Sciolino

THE NEW YORK TIMES

France's foreign minister, Bernard Kouchner, sought on Monday to tone down remarks he made in a radio and television interview the day before that the world had to prepare for possible war against Iran.

Attacked verbally by Iran, quietly criticized within his own government, Kouchner shifted the focus away from the threat of war and back to a call for hard negotiations as the way to force Iran to abandon key

"The worst situation would be war," Kouchner told journalists en route to Moscow. "And to avoid the worst, the French position is very clear: Negotiate, negotiate, and work with our European friends on credible sanctions."

On Sunday, Kouchner, a Socialist known for his blunt talk, said in an interview broadcast on RTL radio and LCI television: "We will negotiate until the end. And at the same time we must prepare ourselves.'

Asked what he meant in referring to preparation, he replied, "It is necessary to prepare for the worst," adding, "The worst, it's war, sir."

Asked again to explain himself, Kouchner announced that France was doing military contingency planning for an eventual war, saying, 'We are preparing by trying first of all to put together plans that are the unique prerogative of the chiefs of staff, but that — it's not for

Dunkin' Aims to Get a Hole Lot Healthier

By Jenn Abelson THE BOSTON GLOBE

The project was so secret that only five people in the entire company knew its code name. For more than four years, a small team huddled in the Dunkin' Donuts research lab trying to crack the code for a doughnut without trans fats that tasted just like those on which the chain had built its reputation over the last half century.

At times, the quest seemed impossible. Batches of doughnuts cooked with oils containing zero grams of trans fat turned into baking disasters: frosting slid off doughnuts, oils bled through the sugary treats, and the stench of palm oil replaced the sweet powdery scent that used to waft through the firm's test kitchen.

In a few weeks at its 5,300 stores nationwide, the Canton-based company will become the first doughnut chain in the country to introduce doughnuts with zero grams of trans fats. McDonald's and other chains have invested huge amounts of time and money trying to banish trans fats because of growing concerns that they increase the risk of coronary heart disease.

Trans fat can be found in vegetable shortening made with or fried in partially hydrogenated oils.

Dunkin's journey was particularly difficult because conventional shortening lends baked goods such as doughnuts their characteristic texture and a longer shelf life. And even with zero grams of trans fats, doughnuts - rings of dough fried in oil and then sprinkled with sugar or coated with frosting — can hardly be marketed as a health food.

Death in Gene Therapy Treatment As Yet Unexplained

By Andrew Pollack

THE NEW YORK TIMES

A federal committee concluded Monday that it was too early to tell whether an experimental gene therapy treatment for rheumatoid arthritis contributed to the death of a 36-year-old woman in July.

But the committee, set up by the National Institutes of Health to help oversee gene therapy clinical trials, raised some questions about the process used to enroll the woman in the study. And the woman's husband said he thought his wife should not have been recruited.

The biggest question I have is, would my wife still be alive today if she hadn't participated in this study?" Robb Mohr of Taylorville, Ill., said in brief, tearful remarks about his wife, Jolee. "I have it in my heart that she'd still be here.

If Mohr's death is eventually tied to the gene therapy, it could set back a field that has already had its share of failures and black eyes, including the death in 1999 of a teenager, Jesse Gelsinger, in a gene therapy test at the University of Pennsylvania.

Jolee Mohr, who had a 5-year-old daughter, died July 24 at the University of Chicago Medical Center, three weeks after trillions of genetically engineered viruses were injected into her right knee as a st of an experimental treatment for rheumatoid arthritis. The type of virus used as a gene carrier has widely been considered safe and is being used in 35 other trials.

Autopsy data presented at Monday's committee meeting in Bethesda, Md., suggested the main cause of death was a fungal infection, histoplasmosis, that had gone out of control, destroying her organs.

States' Health Spending Varies Widely, Study Says

By Robert Pear

A new federal study shows huge variations in personal health spending among states, ranging from an average of nearly \$6,700 a person in Massachusetts to less than \$4,000 in Utah.

The study, published Monday in the Web edition of the journal Health Affairs, said that Massachusetts, Maine, New York, Alaska and Connecticut had the highest per capita spending on health care

The lowest-spending states were Utah, Arizona, Idaho, New Mexico and Nevada. Per capita spending in Utah was 59 percent of that in Massachusetts.

Anne B. Martin, an economist at the Centers for Medicare and Medicaid Services who was the main author of the report, said the reasons for the differences included the age and incomes of the population, the concentration of doctors in a state, the generosity of public programs, the extent of private health insurance coverage and the mix of services used by state residents.

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OPINION

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Sodium Doesn't Just Fall From the Sky

Who should be accountable for the apparent accident that led to five people being burned by sodium on Thursday, Sept. 6? If MIT community members left sodium metal next to the Charles

Editorial

River, they should claim responsibility for their actions. If no responsible party can be found,

the Institute should still help the people who have been hurt.

It is by no means certain that MIT's fraternity rush or Orientation had anything to do with the sodium found. It is up to the state police, not the student newspaper, to determine whether someone from MIT was responsible for these sodium-related injuries. But since the metal was found along the Boston bank of the Charles River near the Back Bay neighborhood which is home to many MIT fraternities, and since at least two sodium drops were held in the week before the accident, it is not unreasonable to say that MIT students are most likely accountable for the incident.

The traditional East Campus-run Sodium Drop, attended by hundreds annually, is probably not to blame. *The Tech* has reported that at least one other drop was likely held a few days before the sodium fire, by the Tau Epsilon Phi fraternity; TEP representatives have refused to talk about the event to *The Tech*, doubtless for good liability reasons.

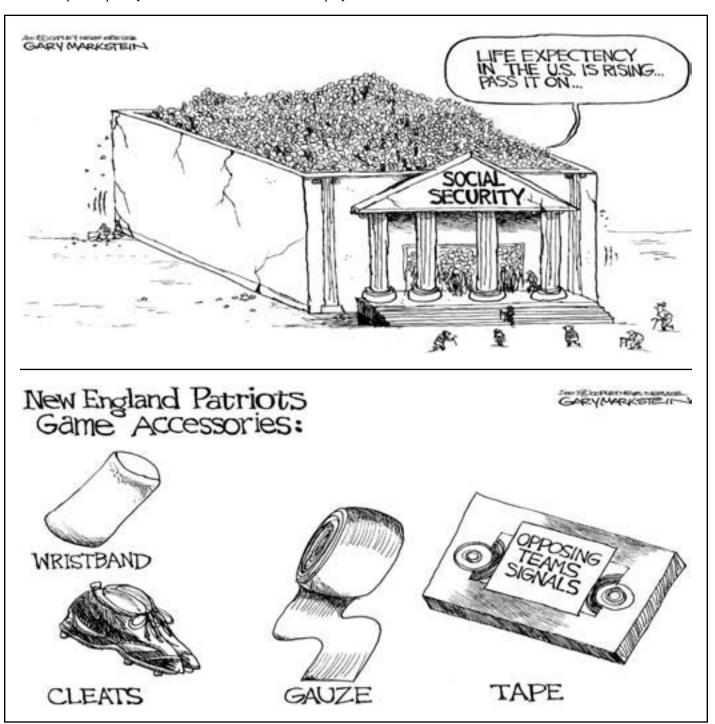
Most students who organize large-scale events with potential hazards, like Sodium Drop and Orange Tours, exercise extreme caution; and the annual student-run Sodium Drop has occurred for years without causing any injuries. MIT officials and police have in the past implicitly endorsed the annual Sodium Drop by

turning a blind eye to it. *The Tech*, Wikipedia, and MIT's own Admissions blogs have mentioned the event for years. Institute attempts to ban this tradition would not measurably improve safety

What the Institute should do is encourage those who have failed to ensure their sodium experiment's safety to step up and take responsibility for their actions. More than that, though, MIT should exercise discretion in its discipline process; if it were well-known that community members would not receive excessive sanctions for admitting a part in this accident, MIT might be more likely to get the truth and to achieve what should be its ultimate goal — ensure that people act more safely in the future.

Finally, MIT itself should act on its responsibility to our surrounding community. If the people responsible for the sodium fire cannot be identified, MIT should err on the side of taking too much blame and should volunteer to help the burn victims from the Charles River Clean Up Boat volunteers and emergency responders. The Institute, which has donated to the Clean Up Boat effort in all four years of that organization's existence, should cover the costs of medical treatment and pay to make the boat seaworthy again.

Where the Institute helps the world — in research and community leadership — we take the credit. Now, when it seems that our culture has hurt the surrounding community, MIT should shoulder the blame. When faced with a choice between helping our neighbors, or ignoring them, MIT's choice should be clear.



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The RBA Flytrap

As a program dedicated to

students' happiness, RBA

should be making the students'

needs and experiences

their priority.

Jessica Kim

As a freshman, I had the audacity to make friends outside of my living group. Only blatant disregard for geographical constraints could have led me to bond with people who lived on the other side of campus. But this distance would not make much of a difference because I could simply switch dormitories during Residence Exploration, right? Not for a freshman temped in Next House. Unfortunately, being "temped" in Next House is equivalent to being "permanently-placed-for-the-first-year" in Next House. This is because Next House comes with the baggage of Residence-Based Advising.

RBA attempts to build a community of students who share the same academic advisor. Yet, in doing so, it severely limits the students' advisor and seminar options and prohibits them from participating in first-year housing lotteries by forcing co-advisees to live in the same dormitory. However, both RBA dormitories — Next House and McCormick Hall attempt to emulate the non-RBA system by allowing freshmen to choose where in the dormitories they live. Many students will thus forgo the benefits of living in proximity to their advising group by instead living near their friends. Since both dormitories are quite large, it is possible for a freshman to go through the year without seeing the bulk of his or her advising group.

During REX, my footloose friends were running around to eat fondue at MacGregor, or to Jell-O wrestle at East Campus. Meanwhile, I stood on the sidelines with increasing resentment for the program keeping me out of the advertised freshman experience. I could only speculate about how different my experience might have been if I had been given the prerogative to choose my living group.

The choice provided in REX that allows students to move to wherever they fit best is one of the most exciting parts of the freshmen experience and one of the best-loved memories amongst upperclassmen. Why should such a defining experience be taken away from a select group of fresh-

men, simply because they are in a particular advising group? Is there any benefit to forcing freshmen to interact with their advising group when they will inevitably choose their own circle of friends?

In last spring's Undergraduate Association "Dorm Storm" survey, 74 percent of students agreed that RBA should not be mandatory and that its dormitories' residents should be allowed to participate in REX. That's 74 percent of the student body, not just students in RBA (though the dormitories polled included Next House).

This simply reinforces the idea that those who don't want to be a part of RBA shouldn't be held to it. Last semester's UA Vice President Ruth Miller '07 wrote, "Mandatory Residence Based Advising strikes me as a black mark in an otherwise warm and sunny orientation system." She lived in Burton-Conner.

Furthermore, even though the Housing Office maintains that the lottery is completely unbiased and that the lottery algorithm was

"developed to maximize happiness," this tends not to be the case for students who rank RBA dormitories in their top four choices. In response to an entry I wrote earlier about the RBA program, another student commented, "We can divide students into two

sets — those that rank RBA dorms in the top four, and those that don't. The latter set is big enough to fill most of the non-RBA dorms, so the system maximizes happiness by putting the former group of students into RBA dorms. Net result: as Ruth Miller wrote, 83 percent of students that received their third choice dorm got stuck in RBA. The statistics are pretty unambiguous: a student in the RBA flytrap has typically received a lower dorm preference than average. By [Assistant Director of Housing Robin] Smedick's 'happiness' algorithm,

RBA students are measurably less happy." If the RBA-housing combination was truly aimed at maximizing freshmen happiness, it would permit students to move in and out of the program after gaining a feel for the dormitory culture.

While supporters of RBA maintain that the program is only instituted for as long as the students want it, we must question which population of students this statement refers to. It certainly is not the population of current freshmen who must live in Next House or McCormick Hall for all of their first year. A current '11 wrote to me, "I placed Next as my third choice unknowingly, but it just seems like after so many complaints that they would have done something to change their system. I will be forced to be satisfied with whatever I end up with eventually, but it just seems like they should be willing to show a bit of leniency. Her roommate agreed, saying, "We were rather foolish to put Next in our top four."

As a program dedicated to students' happiness, RBA should be making the students' needs and experiences their priority. If the mandatory one-year housing rule is not lifted, RBA should at least reassess how to better run the program based on current student opinion. After all, the distinctiveness of dormitory culture is at the very core of MIT student life, from the lemonade-dispensing toilets of East Campus to the falling pianos of Baker House. MIT should not stand to exclude anyone from that — least of all our audacious freshmen.



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Campus Life

I'm a Little **Teapot**The Lab Is a

Dangerous Place By Charles Lin

I can't stand being punched in the kidneys. It's the absolute worstest feeling there is. I mean, it's not pain, it's not like someone hit your hand with a hammer. That's pain. Blunt trauma, stabby stabby stuff, I can usually roll with that. But getting punched in the kidneys, man, that's just wrong. Your body starts to feel all queasy inside, and you get that funny taste in your mouth, like someone just popped open a bag of skunked mellow yellow inside your body and it's spilling all over the place. Actually, that's pretty much what a kidney is in the first place. A bag of mellow yellow.

I bring this up because a coworker at my last school had this really mean habit. For grins, he'd send me an instant message of the variety, "If you don't say 'I'm a little teapot' in 30 seconds, I'm going to punch you in the kidney" or "Say the first 5 digits of pi or I'll punch you in the kidney." Now, I'm a pretty big nerd, and I can roll off pi to nine digits (which makes me normal at MIT, I guess) so in that instance, I wasn't so bad off. Other times though, I'd actually be doing work or not paying attention and then, 30 seconds later, bam. Mellow Yellow.

I quickly learned to check all blinking lights with his name attached.

On many occasions, I was heard in the office blurting out, "I'm a little teapot," as fast as I could. This might seem a little self-deprecating ... and it is, but as far as things go, I'm generally pretty OK with myself as a dude. The way I see it, making a fool of yourself is a small price to pay for not getting punched in the kidneys.

Now, you could argue that it's all a matter of principle. If you let some guy force you to say, "I'm a little teapot," then he's essentially holding your free will hostage. According to some circles of logic, every time I say, "I'm a little teapot," the terrorists win a little bit and a bald eagle weeps for freedom.

Then I thought about it. If I wanted my coworker to stop being a jerk, I'd have to sit down with him and be all civil about it and say stuff like, "You shouldn't be taking joy out of other people's suffering." Unfortunately, complaining only makes me a Grade A Passive Aggressive Pansy. Nobody wants to be that. Nobody even wants to be any combination of two words from that phrase. You aggressive pansy.

I resolved to do something about it. The next day, I sent him an instant message saying, "If you don't say 'I'm a little tea pot' in 15 seconds, I'm going to punch you in the knee cap.' He looked at me calmly and said, "I'm a little teapot."

"OK, that's not fair," I said. He just grinned. I sent him the message again. This time he didn't say anything. I wheeled around and punched him in the knee cap.

Turns out that didn't bother him as much as it should've.

He put a fat smirk on his face and pulled out his phone. "Do a jig in 15 seconds or I'll kick you in the shins,"

"What? No," I replied, "You'll st put a video of me dancii YouTube."

I got my phone out and said, "You do a jig or else I'll kick you in the shins ... wait, how do you make your phone take videos again?'

Fifteen seconds elapsed, then we started kicking each other in the shins. That's right, two grown adults in a biology lab, holding cell phones, trying to kick each other in the shins while sitting in office chairs. Someone should have put a video of that on YouTube.

We kicked back and forth for a few seconds.

"Wait," I said, "you're wearing shoes, that's so not fair."

He took off his shoes, game on. Kick, kick, kick, Block, kick, block.

Finally he landed a mean shot on my right shin. I mean a really hard kick. I hopped around the office cursing. "That's just not fair," I screamed. "I hate being kicked in the shins!"

"Have you learned your lesson?" he asked

"Yes," I replied. "I'm a little tea-

Scott's Travels

The Hitchhiker's Guide to Mongolia (Another Way Not to Do It)

By James Scott Berdahl

The thin silver moon disappeared below the horizon, pulling with it the last hints of light from the barren Mongolian grasslands. Behind us, an unseen electric lamp cast a weak glow out of one of the ten or so rounded tents clustered together on the banks of the Zavkhan River. A jeep roared to life, blinding us in the flood of its headlights before they cut off abruptly, leaving us in darkness again. Over the din of the engine we heard our driver swearing in Mongolian, followed by the somewhat less harsh sound of a hammer panging on metal. The lights came back on.

My fellow adventurer Will and I piled back into the jeep along with several other Mongolians. We had been driving across the inhospitable landscape since dawn that day, seeing few dwellings of any sort and even fewer roads. At last, though, we had found a road, and we were making our way west over its washboards and potholes at a considerable pace.

Then the headlights cut out again. There were screams as we hurtled forward through the darkness, and our stomachs pressed up into our throats as the ground dropped out from beneath us. At last the driver brought the jeep to a halt, and, after a reaming from his wife, he went outside to pang with the hammer again. The lights came back on. We'd dropped off the road into a flood channel.

The night pressed on. We continued slowly at first, but as time passed our driver's confidence grew. I managed to doze briefly between the jarring potholes and the vibrations of the washboards, but I came flailing back into con-

sciousness to a dark vehicle and more screaming as we careened into the unknown once again. This process repeated itself until the first light of dawn pierced the sky behind us, and at last we rolled into the town of Khovd.

That day we were trapped in a quaint little tavern by a dust storm, and by the next day we were ready to leave. After deciding that some camping was in order, we found a ride to the next town, making it known that we'd like to be dropped off at a particular mountain, Tsambagarav, in between.

The ride took us into the Altai Mountains, which overlay the borders of Mongolia, China,

Then the headlights cut out again. There were screams as we hurtled forward through the darkness.

Russia, and Kazakhstan. We wound our way up steep canyons and through sage-covered hillsides reminiscent, or so Will reminisced, of the high deserts of Bolivia. At last we came to a wide plateau where we veered off the road and continued in such a manner for some time. Then we stopped.

"Tsambagarav," the driver said, pointing in the distance to an ice-covered peak. He got out and threw our bags on the ground; we followed. I didn't quite know what to think. "Gol?" I asked, looking around at the parched landscape. He nodded, and then through a series of interpretive gestures he made it known that there was a river two valleys over to the east. That was that. He climbed back into the jeep and drove off, leaving Will and me standing with our bags on a desolate hilltop, in a frigid wind. Huh.

As there was little else to do, we made our way to the river. Our bags were packed largely with the instant noodles we'd found in the last town, so as long as we could find water, we were set for quite a while — or at least that was the general consensus at the time. We camped that night, unintentionally, amidst a herd of yaks, and I slept lightly for fear of being trampled in my tent. I fell asleep after I thought they'd moved on, though the yak snot smeared around my tent fly in the morning proved otherwise.

By the next evening we'd climbed the foothills and reached Tsambagarav, finding a small lake at its base. As we cooked dinner, a storm drifted in and we were forced into our tents for the night. I didn't sleep, choosing instead to keep my body temperature up through a simple pattern of violent shivering and various dolphin-like movements within my sleeping bag.

The next morning, we emerged to a different world: the landscape had been transformed by a shining carpet of snow. What had seemed dead and discouraging the day before was now bright and alive, or, well, still dead but considerably brighter. Quickly forgetting the tortures of the night, we spent the day playing in the snow and exploring the mountainside, hoping for a glimpse of a rare snow leopard or some other such beast. But all we saw were eagles. circling ominously overhead, and, in the far distance, just a single vehicle making its way across the vast, empty expanse.

Cabin Fever

Like Summer Camp — Sort Of

By Michael Lin

With the possible exceptions of RSI and Camp Bohrmore, no experience comes closer to approximating the combination of nerdiness and summer camp than the first few weeks of term at MIT. It could be just me (it usually is), but I can't help feeling like it'll be a while more of eat-sleep-pset-rinse-repeat before it occurs to me that I'm here for the long haul I'm not in the newest of the litany of summer academic adventures that sucked the life out of my vacations, but instead that I am in the next iteration of my educational career.

I should hope at least a few others out there have recognized the similarities. Weather patterns become inexplicably freakish. Food, though often good, is usually of unspecified origin. And tragically, in spite of multiple events featuring its gooey goodness, I've yet to sample the snack food known as the s'more. Given the trend of frustration I've been having lately with healthful foods and lack of flavor, I suspect I may actually at some point end up making entire meals of the stuff.

In all seriousness, the experiences and sensations do have their parallels. You've just been dropped off in a new environment where you're living communally with mostly strangers. The giddiness of escaping (or homesickness of leaving) your guardians' stranglehold is magnified by the need to hunt and gather on your own. You travel just about everywhere on foot for fear that public transportation will take you to some alien and hostile land, like Caltech. After the initial shock, you become acclimated to your new surroundings. You manage to ask questions besides "What dorm are you in?," "Where are you from?," and "What's your major?," the a/s/l of college introductions. The qualifier "because my parents can't stop me" settles into your vocabulary. And following much trial and error, you realize that the most foreign place that Tech Shuttle will take you is the Stata Center.

At least whenever I went to summer camp. classes generally constituted a central part of my day. Of course, MIT classes are of a completely different caliber — as are the workloads. for that matter. Twiddling with quadratic ap-

proximations and making a group PowerPoint about a fictional planet and its wildlife are two very different assignments. One requires you to work with people who don't know you particularly well but have the same class you do, and the other requires PowerPoint.

Of course, it's only a finite interval of time before reality comes along to bludgeon me in the brain hemisphere of its choice with the Fire Hose of Smiting, stripping away the euphoria and novelty of being on the frontier of my life to reveal a bitter world of all-nighters and procrastination.

Already I've forgotten to have dinner and opted instead for a bowl of cereal at two in the morning. Already "tool" has begun to take meaning as a verb, and believe me when I say that there are graphic synonyms aplenty to describe the actions exchanged between myself and my calculus homework. Already, I've dreamt of putting the wrong course number on my Add/Drop form, and few things are more terrifying than nightmares that, upon waking, must be proven fiction with a phone call. Looks like cabin fever has begun to take hold. Welcome, self, to MIT.

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Through My Eyes

Making an Idea Reality Around the World nation and make your life more fulfilling and end of the fiscal year. With persistence and a

By Christina Kang

Machetes, stalkers, white sand beaches ... airplanes, rickshaws, matatus ... pickpockets, knifemen, lions, zebra carcasses ... ugali, dosa, choma, peppercorn ... kindness, laughter, sparkling eyes ... hospitality, disease, sewage, monkeys ... what a summer. Starting in the outskirts of Delhi, India, I traveled to Kenya, Uganda, Tanzania, Zanzibar, Thailand (for a 24-hour layover), and China this summer. It was my first time in all these countries, and, in fact, my first time in any developing country. Spending one to two weeks in each country, I documented MIT students working in those areas through photography and videography, interviewing them and the locals around them while searching for new projects.

It all started in April when I was searching for a summer opportunity in a developing country. I've always dreamed of being an international non-profit humanitarian physician, but I didn't want to sit and do paperwork or work at a lab bench. In my search for a summer project, I wanted to do something in developing countries where I had dreamed of working for so long. I also wanted to be able to make a difference to both my immediate community, MIT, and to the world. I never dreamed that my interest in photography would show me the way to the perfect project.

During my years at MIT, one of the most frustrating things has been commitment to service from our students. It's hard in a place with such a high stress atmosphere to spend the little free time you have doing something for other people that you've never met. As the world becomes more and more global, however, what happens in a small village in Africa can indirectly affect you, a student at MIT. Helping out and learning more about the world outside of your own can help you go beyond your imagi-

miles more interesting. You would be surprised how a hobby, an interest, or a passion of yours can be applied on an international scale to help others. The projects that I documented included designing a multigear hand-powered tricycle for the physically disabled in Kenya, teaching Chinese children to think creatively and to work as a team, and creating a business run by locals and for locals to bring cheaper computers and cheap software such as Encarta

The idea began as a seedling, a branch of my proposals from an application to a different fellowship, using photography as advertisement and therapy for a rehabilitation center in India. The seedling quickly sprouted as I realized that my photojournalism could go beyond advertising for the cause, but could also serve to celebrate the students' achievements, teach the MIT community about the problems in other countries, and motivate others to get up and volunteer themselves. Despite a lot of international development work being done by the MIT community, a lot of the work goes unrecognized by both MIT and the world around it. Here was a way to spread the word!

Thus, the planning began. With about one month to raise funds and complete the planning process for my project, I created a written proposal with a detailed description of my project idea, how it would help MIT and its students, how it would help me, and a detailed budget. Meeting with deans, heads of departments, counselors, and more, I presented my project and asked for their support. The Public Service Center was the first to jump up to support me, with Ms. Sally Susnowitz and Ms. Alison Hynd stepping up as point contacts for me to go to for guidance and assistance.

I faced many obstacles along the way; there were holes in my plans and lack of funds at the

lot of editing and advice, however, I raised a total of \$10,750 dollars from the Public Service Center, the Edgerton Lab, the Deans of Student Life, the Service UROP Office, and the Office of Undergraduate Advising and Academic Programming. MIT offers amazing resources that can help you pursue your passions and help you learn beyond the classroom. You just have to search and work for them, and a slight interest can become reality. Chances are, if you're passionate and excited about an idea, so too will others who can help you make it happen.

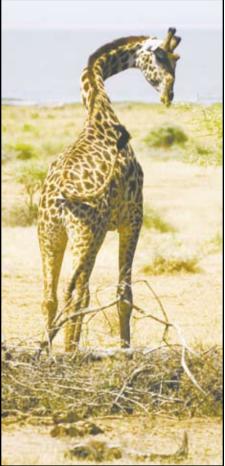
In addition to photographing the projects and my experiences, I also wrote a great deal about my experiences on my blog available at http://csk07.blogspot.com/. Interviewing the MIT students, the locals, and investigating the issues at hand, I had a lot of time to reflect on myself and the world around me. Throughout this semester, I will share some of my photographs and experiences with you.

Coming soon:

- ¶ getting robbed in Tanzania
- ¶ life with a host family in China
- ¶ the political system of Uganda ¶ widespread NGO corruption
- ¶ issues of dowries for marriage
- ¶ goodwill gone bad
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die despite existing treatments

- ¶ waste and open sewage
- ¶ contagious laughter from a child doomed to
- ¶ polio (an eradicated disease here in the United States) as the leading cause of physical disabilities in Kenya



A giraffe grazes at Lake Manyara in Tan-



This engraving, a Chinese idiom, is located on the side of the Leshan Giant Buddha the tallest stone Buddha statue in the world.



Tourists visit the Taj Mahal in Agra, India.

Call SIPB with questions at x3-7788!

Ask SIPB

By Geoffrey Thomas STUDENT INFORMATION PROCESSING BOARD

gital world: printing out documents on those old-fashioned sheets of paper. Networked printing presents its own set of challenges, and the way to effectively use Athena's printing infrastructure may not be immediately obvious. We'll also discuss getting Matlab to run on Mac OS X and forwarding your MIT e-mail.

How do I find a printer to use?

All public Athena clusters have at least one printer. To view the status of these printers, type the command athena% cview printers

You'll see a screen of information that lists these printers' names, their location, whether they're currently working, and how many jobs are already in the print queue. (There are also cluster cards with the locations of these printers and a map of campus available in the SIPB office, W20-557, and from IS&T's front desk in N42.)

It's almost always a good idea to check the cview printers command before printing a document so that you don't end up in a queue with dozens of documents ahead of you. To see the full queue of one of these printers, type

athena% lpq -Pprintername

If I don't specify a printer, where will my documents go?

You can check your default printer by just typing the command "lpq" without specifying a printer.

How do I tell my software to print to a specific printer? Most software, including Firefox and Acrobat, has an op-

tion for you to specify options to the "lpr" command. Just as with "lpq," you can add -Pprintername to the end of In today's issue of Ask SIPB, we'll discuss that bane of the the command. However, make sure to remember to update or remove this next time you're about to print, or it'll print to your old printer!

How do I print double-sided and without this stupid header

For software which allows you to set a printing command line, you can add the options -Zduplex to print double-sided, and -h to suppress the header, for example:

/usr/athena/bin/lpr -Zduplex -h Another method is to simply append "2" to the name of the printer, e.g. -Pajax2, but this has the same caveat as above of changing or removing the printer name manually.

In OpenOffice, you can select the "Duplex: Long Edge" option in the printer properties dialog.

Can I make these settings permanent?

Yes. Create a file named ".environment" in your home directory, using a text editor such as Emacs or gedit:

athena: gedit ~/.environment & In this file, add a line such as

setenv LPROPT="\$LPROPT -Zduplex -h"

I accidentally printed my document 10 times. How do I stop

The command "lprm" (or "lprm -Pprintername") will remove your first queued job from a printer. If you want to delete all your jobs, add "all" to the end of the command. To delete a particular job, add the job number from lpq instead. (Note that this is NOT the "Rank" in the first column.)

Drop by our office in W20-557!

Someone else accidentally printed their document 10 times, hours ago. Who can remove their jobs?

In cases of obvious mistakes or abuse, you can send an eail to olc@mit.edu. Alternately, if you're comfortable with Zephyr, you can send a message to the instance "printadm," which reaches people who can remove jobs from public print-

athena% zctl sub message printadm * athena% zwrite -i printadm

I'm trying to install Student Matlab on my Mac, but it needs X11 to run. How can I install X11?

You'll need to install it from your original install disk, which should have come with your computer. Scroll down and you'll see a package called "Optional Installs," from which you can select the application "X11." Once this is done, you should now be able to run Student Matlab.

Can I forward all my MIT e-mail to another account?

Yes; you can type the command

athena% chpobox -S example@gmail.com After the next mailhub update (usually within six hours), a copy of your MIT mail will go to Gmail too. To undo this change, type chpobox -p.

To ask us a question, send e-mail to sipb@mit.edu. We'll try to answer you quickly, and we can address your question in our next column. You can also stop by our office in W20-557 or call us at x3-7788 if you need help. Copies of each column and pointers to additional information are posted on our Web site: http://www.mit.edu/~asksipb/

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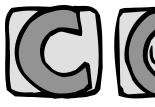
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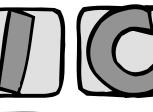
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September 18, 2007









The Tech



Page 11



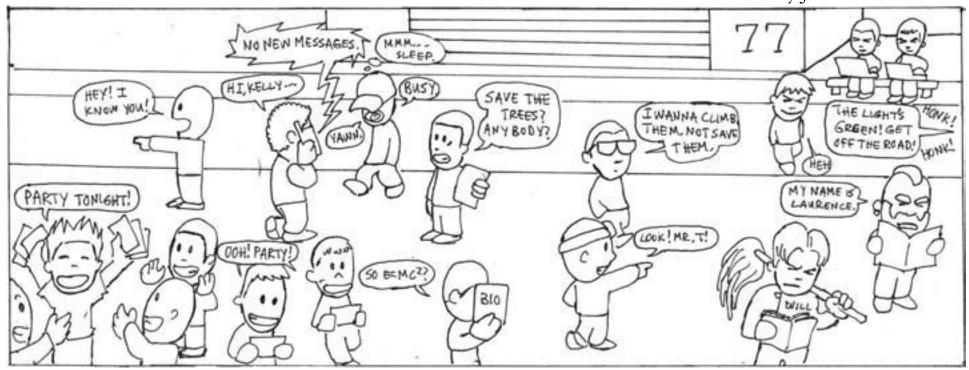






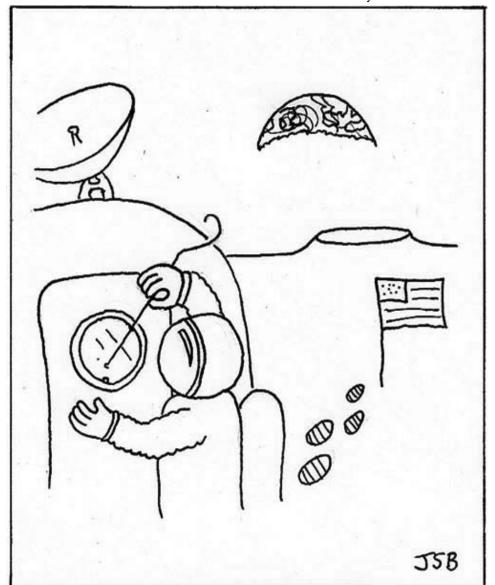
Moons of Uranus

by Juan Pablo Mendieta



Mad Science

by Scott Berdahl

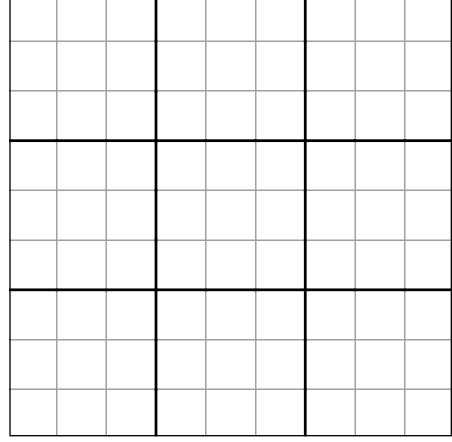


su do ku

© Puzzles by Pappocom

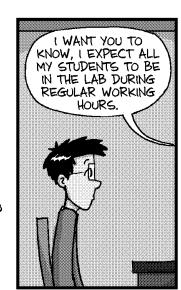
Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Solution on page 21.

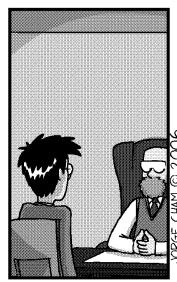


Solution, tips, and computer program at http://www.sudoku.com











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Crossword

ACROSS

1 Bearing

17 Refrains

19 Make lace

9 Paper fastener

15 Poisonous shrub

16 Mocks in fun

18 Hardest to find

20 Go on a quest

22 Ending of a myth?

21 Stir to action

24 Swiss canton

25 Part of TLC

28 Harry and

birds

letters

35 Accidents

41 Medical pic.

26 Defense grp.

Sherwood

30 American diving

32 Neurological test

33 Marine gastropod



after pack

5 Balin and Claire

43 Strong red shade

44 Lemmon movie,

with "The"

51 Southwestern

54 City in Ohio or

58 Nurse, as a drink

62 Soup dispenser

63 Trap activator

65 Concentrated

1 Outer layers

2 Large tuna

extracts

64 Take stock

Native Americans

50 Devoured

52 Cow chow

Peru

55 Sundial

56 Imitated

60 Positions

3 Interstate 37 Make sound relaxation site 38 Done with skill 4 Word before or and taste

39 Film's first showing

40 Nerve gaps 6 Farewell, Jacques 7 Biology categories 42 Too quickly 8 "Tobacco Road"

44 Lansbury or author Caldwell Bassett

9 Part of SALT 10 Ripper

11 Neville and Burr 59 Fit for consumption 12 Phony

13 Decrease 14 Aromatic

compounds 23 Practical sci. classes

27 2nd-smallest state 29 LBJ's party

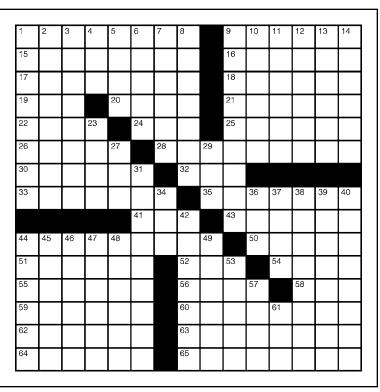
31 Those who evoke 34 Coll. seniors' test 36 That girl

45 Bamboo-eating creatures 46 Dodges 47 Speak with digressions 48 Oar holders 49 Odd-toed ungulates

snowmen 57 Easily misled person

53 Abominable

61 Bristlelike appendage



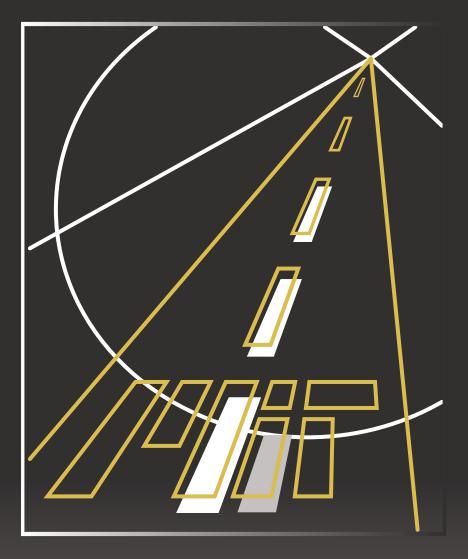
Doonesbury BY GARRY TRUDEAU

DOWN

Dilbert ®	by Scott Adams

September 18, 2007 THE TECH Page 13

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Page 14 THE TECH September 18, 2007

OLIVER WYMAN

A journey of a thousand miles must begin with a single step.

- Lao Tzu



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September 18, 2007 THE TECH Page 15

Single Lecture This Year Results in 3.091 Over

3.091, from Page 1

start of the lecture, Sadoway said. About 65 students attend the video streamed lecture in 26-100, according to Hilary R. Sheldon, the course administrator.

The room capacity problems were a surprise, said Sadoway, as the enrollment is not known until the day after freshmen register for classes. Sadoway said he heard about the problem from Daniel E. Hastings PhD '80, dean of undergraduate education, who was concerned about "crowding in the classroom" and a possible violation of the fire code.

Sadoway said that the "quality of the video feed is good" and there have not been any complaints. Additionaly, videos of the lectures are online within one hour after the subject ends, Sheldon said.

Sadoway said that he suggested that students concerned about crowding in 3.091 should consider switching to 5.111 or 5.112 (Principles of Chemical Science), the other classes that satisfy the chemistry General Institute Requirement.

"I don't take any pleasure in asking people to watch the lecture on video," Sadoway said. "If I had a magic wand, I'd like to see a brand

new state-of-the-art lecture hall that's a pleasure to teach in and a pleasure to learn in."

Students specifically interested in 3.091 could also take the subject in the spring. Enrollment in the spring term 3.091 course has been below 60 in the past two years, DiGuardia said. Sadoway teaches the subject only in the fall. "The students like Professor

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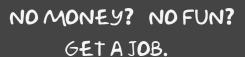
ZURICH

Sadoway very much and his enthusiasm keeps them interested," Sheldon

Christian W. Therkelsen '11, a 3.091 student who attended the video streamed lecture yesterday, said that "the normal lecture is better than this one but it's okay." Therkelsen said that he usually attends the 10-250

rollments include 8.01 (Physics I) and 7.012 (Introductory Biology). In Fall 2006, the numbers of students in 8.01 and 7.012 were 581 and 404, respectively.

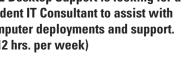
DiGuardia said that after 26-100 and 10-250, the three largest lecture halls at MIT (34-101, 32-123, and 54-100) all have about 300 seats.





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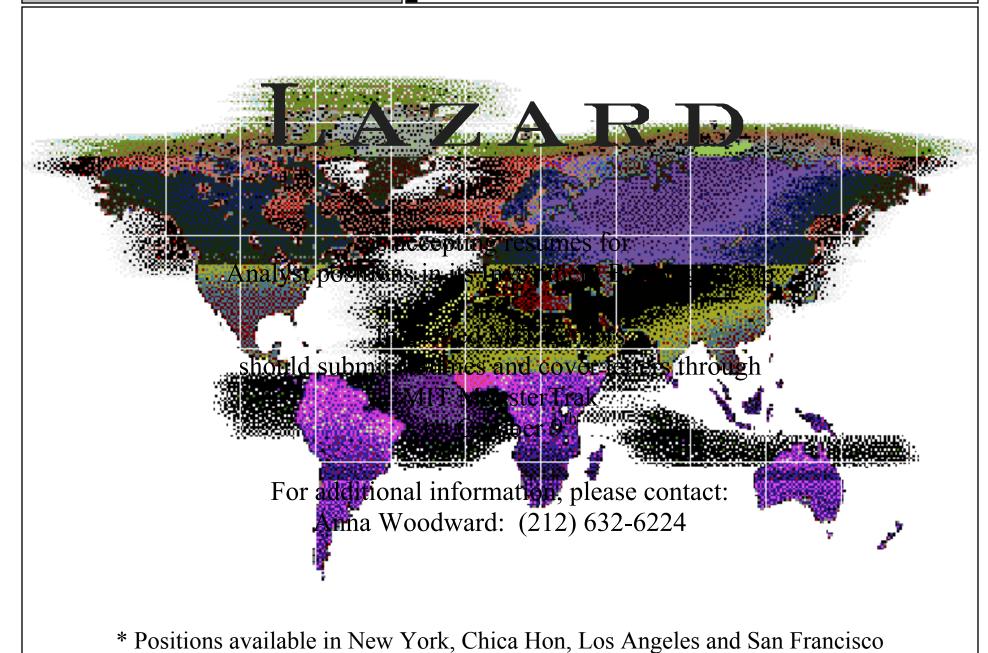
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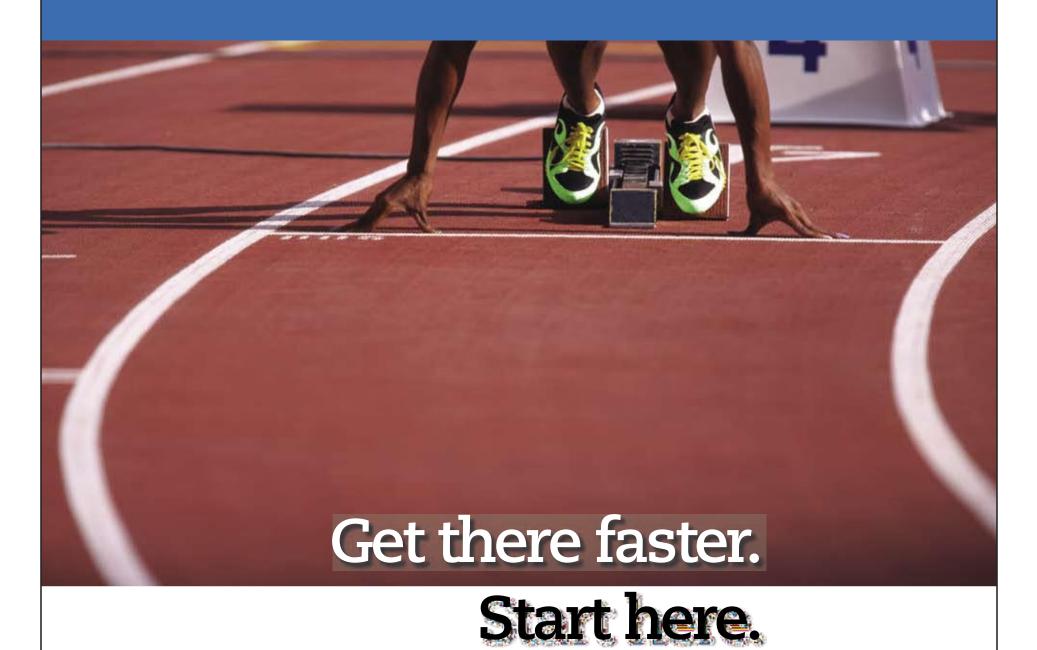
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OLIVER WYMAN



Information Session
Tuesday, September 18th
Cambridge Marriott
6:00 pm - 8:00 pm

September 18, 2007 THE TECH Page 17

Without Biology AP Credit, More Frosh Take and Pass ASE

Freshman Tests, from Page 1

All upperclassmen who had preregistered for the class were also admitted, Canavan said.

Canavan said that the students given spots in 8.012 were "probably those students who have high potential to succeed in the class." He said he was interested in restricting enrollment in 8.012 to students with good potential for success and said that the limited enrollment this year might help reach this goal.

Beginning this year, the Biology Department no longer accepts AP Biology credit to pass out of 7.012 (Introductory Biology). As a result, many more freshmen took the Biology ASE this year. A total of 96 students took the Biology ASE this year as opposed to six last year.

Despite the jump in the number of students taking the Biology ASE, the percentage of students passing the exam remained virtually constant, with 16 percent passing this year and 17 percent passing in 2006. In previous years, about 27 percent of enter-

ing freshman classes have passed out of the biology GIR by scoring a 5 on the AP Biology test.

The only ASE with a significant change in percentage passing is the 8.01 test, with 54 percent passing this year compared to 22 percent last year. Canavan said this difference does not reflect a change in the difficulty level or content of the exam. Rather, the statistic varies widely from year to year, Canavan said, because so few students

— less than 70 — opt to take the exam. Under these circumstances, a difference of a small number of students passing or failing creates a large change in the percentage passing, Canavan said.

Before classes start each year, freshmen may sit for ASEs in chemistry, biology, physics, and mathematics to try to pass out of General Institute Requirements in these subjects. All freshmen who do not score a 5 on an AP English exam must take the FEE, which determines whether a writing subject is required for a student in their first year.

Advanced Standing Exam Results

	Class of 2011		Class of 2010	
Subject	Examinees	% Passed	Examinees	% Passed
5.111	65	10%	77	17%
7.012	97	16%	6	17%
8.01	68	54%	69	22%
8.02	56	80%	71	60%

SOURCES: BRIAN E. CANAVAN, DEPARTMENT OF PHYSICS ACADEMIC ADMINISTRATOR; SYLVIA T.

AP Credit Received by Freshman Class

AP Exam	Pass out of	Class of 2011	Class of 2010
Calculus BC (score of 4 or 5)	18.01	51%	53%
Physics C (5 on both Mechanics and E&M)	8.01	16%	15%
English Language (5) *	FEE	12%	16%
English Literature (5) *	FEE	14%	16%

SOURCE: JULIE B. NORMAN AND MICHAEL BERGREN, UNDERGRADUATE ADVISING AND ACADEMIC PROGRAMMING OFFICE

* Some freshmen bring in scores of 5 on both AP English Literature and AP English Language, while others bring in a score of 5 on just one or the other. In total, 21 percent of the incoming class passed out of the FEE via AP English credit. Last year, 25 percent of the Class of 2010 passed out of the FEE using AP credit.

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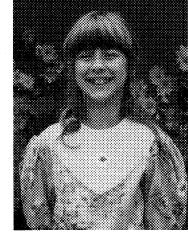
Easter 1987, Age 5



Easter 1988, Age 6



Easter 1989, Age 7



Lorien Lea Denham.

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This space donated by The Tech



U.S. Department of Transportation

New Course 8 Bldg. Will Require MIT ID For Access at Night

PDSI, from Page 1

ness and privacy," said Robinson. The project also added an air conditioning system, other utility services, up to date sprinklers, electric codes, and fire alarms to Buildings 4, 6, and 8.

As part of MIT's Percent-for-Art program to commission art for major constructions, the floor of the atrium in 6C includes the designs of American conceptual artist, Sol LeWitt.

The arrium will be open to the public from 8 a.m. - 6 p.m. and open with MIT card access during the

night, said Gerald Hughes, facilities manager for the Department of Materials Science and Engineering.

Payette Associates completed a design for the PDSI project in 2004, and construction started in the fall of 2005. The Physics Department's effort to consolidate began in the late 1970s according to Robinson but never succeeded until Dean of Science Marc A. Kastner, then the head of the Department of Physics, and A. Neil Pappalardo '64, member of the MIT Corporation, raised the issue again.

Biodiesel Considering Four Potential Places To Operate Processor

Biodiesel, from Page 1

convenient location close to where the Tech and SafeRide Shuttles are parked at night, Associate Provost Lorna Gibson, responsible for space planning, said. The location, however, does not have running water or access to a sewer and would require renovation. Roy-Mayhew estimated the cost of adding running water and a sewer at around \$35,000. Some of the other sites being considered have similar financial constraints.

"We're at the point now where we've asked to meet with the biodiesel team to talk about their financial plan," Gibson said. "We're still looking at options and getting costs."

Roy-Mayhew said that how the funding situation plays out will show "how much of a commitment MIT will have to environmental sustainability."

The Biodiesel@MIT team's winning proposal aims to recycle 2,500 gallons per year of used vegetable oil and eventually work its way up to recycling all of MIT's used vegetable oil, approximately 15,000 gallons per year. To run on a fuel with 20 percent biodiesel, currently the highest proportion recommended, the six Tech Shuttles would require 6,000 gallons of biodiesel per year. Roy-Mayhew said the team hopes to reach that level in two or three



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Jeremiah T. Edwards '10 climbs stairs during the Green Building Challenge held on Sunday night. Edwards went on to set a new record, climbing the building's steps 48 times.

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- Corporate Presentation, Oct. 10, 6:30 8:00pm, 4-231, food provided

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Page 20 THE TECH September 18, 2007

At Berkeley, Protests Over Plan to Cut Down Trees

By Jesse McKinley
THE NEW YORK TIMES

BERKELEY, CALIF.

In many ways and for many months, the protest outside Memorial Stadium at the University of California has been business, and Berkeley, as usual.

On one side are the protesting tree lovers who have been living Tarzan-like since December in a stand of coastal oaks and other trees. On the other is the university, which wants to cut down the trees to build a \$125 million athletic center, part of a larger plan to upgrade its aging, seismically challenged football

The two sides disagreed. They bickered. Lawyers were called. Then came The Fence.

Before dawn on Aug. 29, building crews and the university police

the grove, effectively cutting off the tree dwellers from their supplies. The university called the fence a safety measure, meant to protect protesters from football fans descending on the stadium for the season opener.

Instead, the fence has united many of the city's fractious constituencies and unleashed years of frustration with the university that made the city famous (or was it the other way around?).

"I am appalled," said Michael Kelly, who leads a group opposing the stadium plan. "I cannot believe that the institution that gave birth to the Free Speech Movement has done

[The university ratcheted up pressure when it sought a temporary restraining order, arguing that the tree community contained several health and safety threats, including propane

Sept. 12, Judge Richard O. Keller of Alameda County Superior Court denied the order but scheduled another hearing for Oct. 1.]

The stadium showdown has energized many in Berkeley's graying anti-establishment set who cherish the city's activist past, including the famous 1969 battle over nearby People's Park. In that case, university and state authorities sent the police and the National Guard to clear the university-owned park and build a fence, a move that led to violent clashes in which one person was killed and dozens were injured. The land remains a park today.

"A lot of people who have been here a long time have seen this as a potential rerun of that problem," Mayor Tom Bates said. "The abruptness of it, in the middle of the night, and the mobilization of the police."

police," Bates said, "but I'm just glad it didn't escalate."

The city has sued the university, arguing that the athletic center should be built away from the stadium. The stadium sits over the Hayward fault, which scientists say is overdue for a large earthquake. The university says it has thoroughly considered safety issues, and that the athletic center needs to be near the stadium to allow athletes easy access to classrooms and training facilities near the playing fields. Arguments in the lawsuit will be heard Sept. 19 and 20.

On Sept. 11, the City Council rejected a settlement offer from the university, to the joy of its assembled opponents, including a group of football fans who say the stadium plan will rob them of a free view of the action from a nearby hillside.

[Shirley Dean, a former mayor who says she knows well the animation with which various opinions can bounce around her hometown, said she was impressed by the turnout. "Many of these people I knew from previous times, many people — I'm not going to name names — that I would have preferred not to be in the same room with, and we were all of the same side," Dean said. "It was absolutely amazing."]

Shortly after the fence appeared, dozens of protesters formed a human chain around the chain-link fence and began tossing supplies over the top. Soon after, the editorial board at The Daily Californian, the independent student newspaper, called the fence a public relations disaster and suggested that it might "encourage martyrdom."

Zachary Running Wolf, an American Indian activist who has been living in the grove for nearly 300 days, agreed. "I think they blew it with the fence," Running Wolf said. "They showed their desperation. In the city of Berkeley, on a public campus, a starve-out program? A Guantanamo Berkeley? It's ridiculous."

University officials say the fence was meant only as protection from rowdy football fans. "If we'd wanted to drive them out, it would have made much more sense to do in February in the cold and the wet and when nobody was around," said Nathan Brostrom, vice chancellor for administration, adding that recent incidents and blog postings had raised safety concerns.

Brostrom said the protesters' freedom of speech had not been curtailed. "They've had a forum for nine months," he said. "They'd have every opportunity for free speech if they would come down, and they'd even have a fence to protect them."

American Thinker, a conservative blog run by a Berkeley management consultant, has suggested that the anti-stadium forces simply do not like football.

"To the consternation of local leftists, Berkeley, the campus and the community alike, is in the grip of pigskin fever," a recent post said. "Instead of smelly hippies and fulminating Marxists, images of celebrating frat boys, cute and sexy cheerleaders and heroic athletes dominate media mentions of Berkeley."

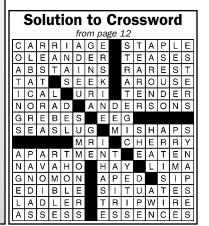
Indeed, after years of mediocrity, the Bears are enjoying winning seasons and are ranked in the Top 10 in the nation under Coach Jeff Tedford, who was promised new facilities as part of a recent contract.

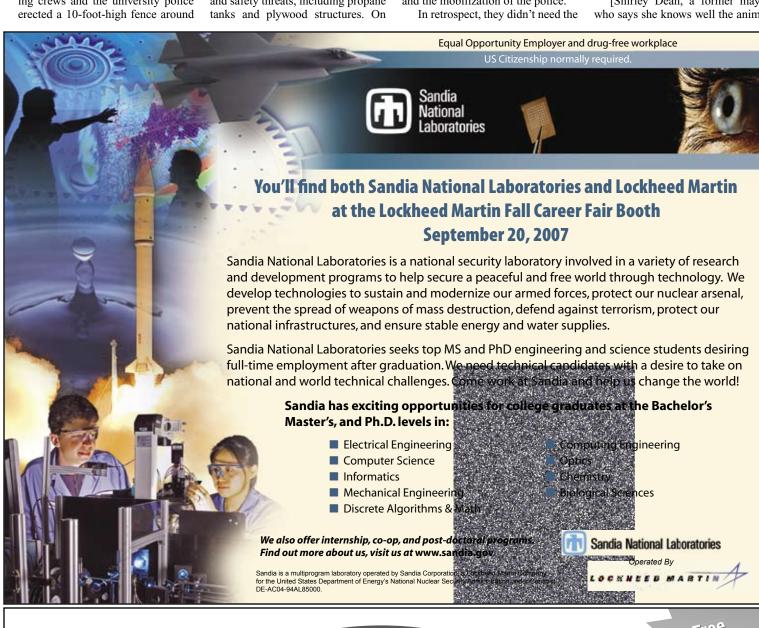
But Bates, who played in the Bears' last Rose Bowl appearance, in 1959, rejected the idea that the antistadium forces had anything against football, though he said he was not popular with fans. "I don't think any of my old teammates are speaking to me," he said.

Both sides say early tensions over the fence seem to have eased, and the protesters now have access to food and water. Perhaps a dozen people still live in the trees, complete with sturdy hammocks, wooden platforms and hongo drums

The highest platform belongs to Running Wolf. A regular presence at the city's many marches and protests, he says he, too, is impressed by the stadium opposition.

"This is remarkably unified," he said. "You've got the affluent people living in the hills, who normally wouldn't mix with the food-notbombs people or the anarchists or the Native Americans or the environmentalists. It's pretty wild."





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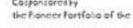
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Harvard Endowment Soars as Its Head Plans to Leave

By Jenny Anderso

THE NEW YORK TIMES

The Beatles insisted that money can't buy you love. Apparently it can do a lot of other things, like lure top-flight talent from one high-profile, well-paying job to another high-profile, better-paying job.

On Wednesday, Harvard announced that Mohamed A. El-Erian, the head of its \$35 billion endowment, would return to the Pacific Investment Management Company after a year and a half in Cambridge.

Many were stunned. Harvard rests at the heart of more concentric circles of power than any other institution. Its endowment, the largest in the country, is also one of the most successful, continuing its winning streak with a 23 percent return for the year that ended June 30.

Mr. El-Erian is leaving to take the newly created job of co-chief executive and co-chief investment officer at Pimco, joining two other prominent executives who insist they are not leaving. He cited family reasons for his decision. (He declined to comment for this column.)

His move might seem odd. If investing is your passion, managing a money pot like Harvard's would seem to be the best job in the world. Mr. El-Erian could make a good living, make a difference and have the kind of power wealthy Wall Street financiers so assiduously, and often fruitlessly, seek.

Yet retaining endowment chiefs, at Harvard and elsewhere, is notoriously challenging. And according to veterans, the job is no walk in the park

"Being the chief investment officer of an endowment is one of the hardest jobs in the investment business because there are so many constituencies involved," said Verne O. Sedlacek, president and chief executive of Commonfund and a former chief financial officer at Harvard Management Company. "In my job, I have 1,800 clients with one objective — investment performance. An endowment has one client with 1,800 objectives."

Consider the constituencies: students who may want you to shed your holdings in companies that do business in Sudan because of the genocide in Darfur, or professors who do not make a lot of money and happen to have very specific expertise in just about everything. It is a clash of civilizations; liberal academia meets cold, crass capitalism.

"I've never been called names worse than those I was called by professors and others on campus," one former endowment head said. "It gets personal very quickly." And don't forget the endowment boards, often packed with passionate and well-heeled alumni who did not make their fortunes by simply rubber-stamping investment decisions.

"You are subject to the vagaries of the board, and they come and go and they are different people," said Alice Handy, who ran the University of Virginia's endowment for 29 years before starting a business in 2003 advising small endowments. "It can be like déjà vu. You come back to the same issues over and over again."

Nationally, more than 40 percent of the top investment executives within universities and endowments left in 2005 and 2006, according to a 2007 compensation survey by Mercer Human Resource Consulting (now Mercer) that excluded Harvard and Yale. The number is high even for Wall Street, which tends to chew people up at impressive rates.

"It's tough to keep these CIO's in place," said Robert Boldt, the former head of the University of Texas Investment Management Company who is a partner at Perella Weinberg Partners. "It's a problem that is ongoing."

Money is obviously one reason. A lot of these people are talented at what they do, and in case you just landed here from outer space, hedge funds have been snapping up people to manage money, giving them a lot of freedom and the possibility of eye-popping payouts.

"This pay-for-performance culture that works well on Wall Street is very hard to achieve in an academic setting," said Stewart Massey, founding partner of Massey Quick, which customizes investment portfolios for small and midsize endowments and foundations.

Mr. El-Erian's predecessor, Jack Meyer, left after controversy over how much he and some of his staff members were paid. He later started a \$6 billion hedge fund, the biggest on record.

Clearly even the best-run endowments have trouble holding onto talent. Harvard produces presidents, chief executives, doctors, lawyers, politicians and money managers (the money managers that come from Harvard's endowment are called the Crimson puppies). Brand Harvard is so hot that there is an independent magazine dedicated to it, whose title is simply the institution's ZIP code. And yet it has lost two endowment managers in less than three years.

In the last few years, several longtime executives at endowments around the country have left to start investment businesses, consulting to endowments and universities, directly managing money for them or both.

These former endowment chiefs are looking to bridge that gap with different approaches. Makena has a one-size-fits-all model in which it, rather than the investment board, manages the money and its day-to-day allocation. Investure customizes investment portfolios for clients, working with the boards to develop an allocation profile and then introducing board members to managers who can work within their own parameters. Mr. Boldt is offering a hybrid of the two.

Politics aside, some longtime endowment executives had rather fond memories. "I think it's the best job in the world," Ms. Handy said. "You get to meet amazing investors, you meet fascinating people through your board, you are cutting edge and you do it for a cause you can believe in and identify with."

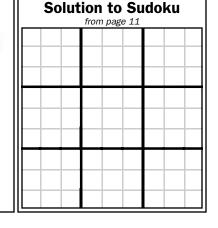
Added Mr. Boldt: "The real psychic reward is feeling like you are doing something good and important about an organization you care about."

Or not. If Mr. El-Erian had stayed at Harvard and the performance he delivered was good, he easily could have followed in Mr. Meyer's footsteps, raising billions for his own hedge fund

But he's going west, back home, where word has it that his family was happier. Maybe Pimco gave him more love. Or maybe it was just more money.

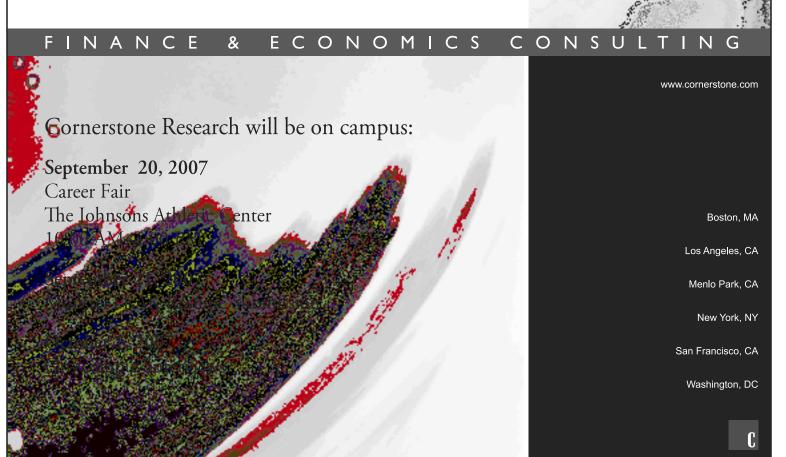
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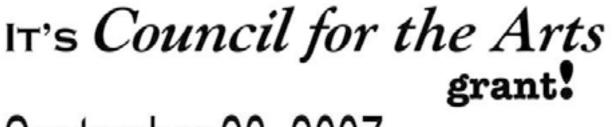
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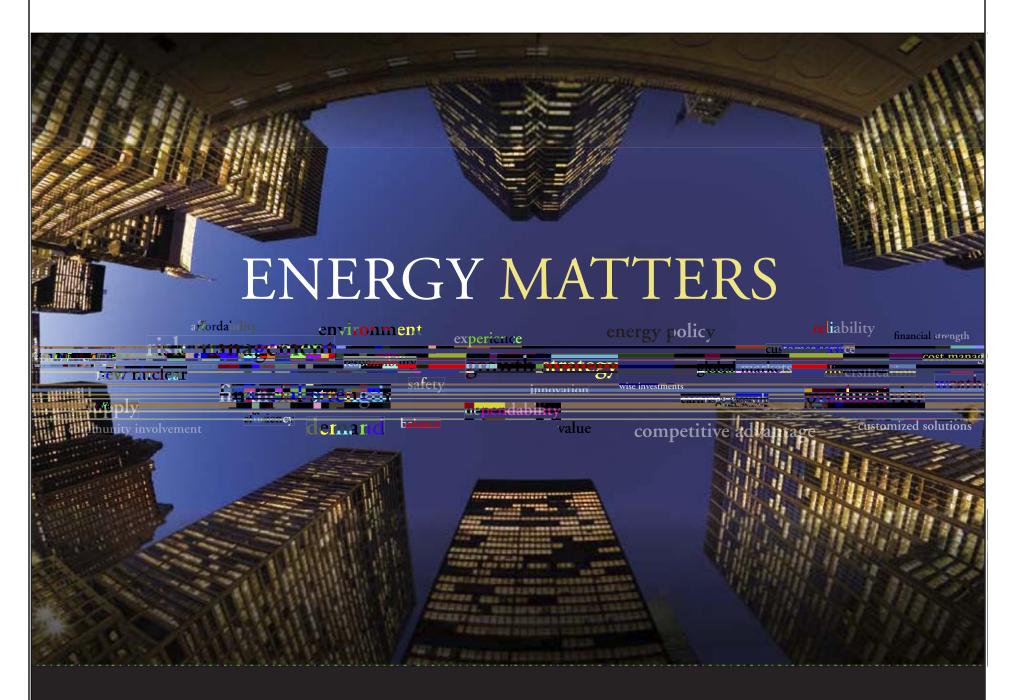
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Young People Forgo MBAs For High-Paying Ventures

Most people who knew Gabriel Hammond at Johns Hopkins in the late 1990s could have predicted he would rise quickly on Wall Street. As a freshman, he traded stocks from his dorm room, making a \$1,000 bet on Caterpillar. Soon after, he abandoned his childhood dream of becoming a

lawyer and, upon graduation, joined Goldman Sachs as a stock analyst.

Three years into his new job, Mr. Hammond noticed something. Very few of his young were assumptions about success. co-workers taking a hiatus from Wall Street to

go to business school, long considered an essential rung on the way to the top of the corporate ladder.

So he, too, decided to forgo an MBA. Instead, he raised \$5 million and started his own hedge fund, Alerian Capital Management, in 2004. The fund now manages \$300 million out of offices in New York and Dallas. and Mr. Hammond, 28, enjoys sevenfigure payouts.

Like other young people on the fast track, Mr. Hammond has run the numbers and figures that an MBA is a waste of money and time — time that could be spent making money. "There's no way that I would consider it," he says.

As more Americans have become abundantly wealthy, young people are recalculating old assumptions about success. The flood of money into private equity and hedge funds over the last decade has made billionaires out of people like Kenneth Griffin, 38, chief executive of the Citadel Investment Group, and Eddie Lampert, 45, the hedge fund king who bought Sears and Kmart. These men are icons for the fast buck set — particularly the mathematically gifted cohort of rising stars known as "quants." Many college graduates who are bright enough to be top computer scientists or medical researchers are becoming traders instead, and they measure their status in dollars instead of titles.

Many of the brightest don't covet

a corner office at Goldman Sachs or Morgan Stanley. Instead, they're happy to work at a little-known hedge fund run out of a two-room office in Greenwich, Conn., as long as they get a fat payday. The competition from alternative investment firms - private equity and hedge funds in particular - is driving up salaries of entry-level analysts at much larger banks. And

As more Americans

have become abundantly

wealthy, young people

are recalculating old

top performers at the banks make so much money today that they don't want to take two years off for business school, even if it's a prestigious institution like the Wharton School or Harvard.

The new ranks of traders and high-octane number crunchers on Wall Street are also a breed apart from celebrated long-term investors like Warren E. Buffett and investment banking gurus like Felix G. Rohatyn. What sets the new crowd apart is the need for speed and a thirst for instant riches.

"With the growth of hedge funds, you're getting a lot of really smart people who are getting paid a lot very young," says Arjuna Rajasingham, 29, an analyst and a trader at a hedge fund in London. "I know it's a bit of a short-term view, but it's hard to walk away from something that's going really well."

The shift has not gone unnoticed by administrators at some business schools. Richard Schmalensee '65, who was dean of the MIT Sloan School of Management until June, chalked it up to the changing nature of money-making. In many banks and investment boutiques, traders with math and science backgrounds now contribute more to the bottom line than the white-shoed investment bankers who long presided over Wall Street. And traders tend to be less likely to go to business school.

"I don't think you will see MBA's less represented in executive suites, but you may see MBA's less represented in the lists of the world's richest people," Professor Schmalensee says.

Business school has not fallen out of favor among the student population at large. The number of students who earned MBA's in 2005 was about 142,600, nearly twice the level in 1991. But as MBA's become more common, the degree seems to carry less prestige with people who land top-paying jobs in finance soon after college.

And recent upheavals in the financial markets don't seem to be changing the thinking of these younger high-fliers and their employers.

Hedge fund managers are unlikely to punish their younger workers for any dip in returns this year, says Adam Zoia, managing partner at Glocap, a headhunter in New York. Management fees charged by funds percent — come in regardless of return levels and can more than cover large salaries for young employees at many funds.

"Most managers say, 'If I don't pony up a decent bonus, then I'm going to lose people," "Mr. Zoia says. "It'd be short-sighted of them not to retain their good people."

At funds that manage \$1 billion to \$3 billion, people with just a few years of finance experience will make \$337,000 this year, Mr. Zoia says, and those with five to nine years of experience will average \$830,000, up 6 percent from last year. These estimates include analysts and researchers but not portfolio traders, who can make much more because they sometimes share in profits.

Dozens of young people (mostly male) who want to be, or already are, successful traders said in interviews that they relished the challenge of their jobs, in addition to the lofty pay-

But they also spoke as if a moneyclock were ticking: many said they wanted to make as much money as fast as they could so that they could live in style later in life while doing less lucrative things like running a charity, working for the government, spending time with their families, or inventing new technologies. Some, of course, plan to stay in finance their entire careers, and they, too, are very focused on earning fat bonuses fast.

'The sales pitch of these private equity funds or these hedge funds is, 'Come here, and you'll make a million bucks in two years," says Gregg R. Lemkau, 38, managing director and chief operating officer of investment banking at Goldman Sachs, who passed up business school to stay at Goldman in the early 1990s when that choice was more rare.

And because today there are more self-made millionaires — and billionaires — than ever before, 20something traders seem bolder in their monetary ambitions. Business school often does not fit into these

"If you want to make the most money in the shortest period of time, you can't be away from work for two years," says Vitaly Dukhon, 30, who recently left the Fortress Investment Group in New York to join another hedge fund.

While in college at Harvard, Mr. Dukhon thought he would go to business school in his mid-20s, but in his first job on the Treasury desk at Deutsche Bank, he realized that the smartest people just a few years his senior were staying put. "I saw that people that had been working for 20 years did have MBA's, but people five to six years older than me were not going," he says. "Going to business school is a way for people to try to open the door, to try to get into a company or hedge fund. But if you're already there,

sense to go." Mr. Hammond of Alerian noticed the same trend while he was an analyst at Goldman Sachs. His coworkers who went to business school either wanted to change careers, or they were not doing well in their current jobs, he

it doesn't make

Part of the shift comes as investment banks like Goldman Sachs and Credit Suisse have changed their tune on business school. Instead of pushing all their young employees into MBA programs, banks are telling the best ones to stay put.

"We are the perfect training ground for people who want to have careers in finance," says Caitlin McLaughlin,

director of campus recruiting for Citi, the former Citigroup. Just 15 years ago, Ms. McLaughlin estimates, 85 to 90 percent of Citi's analyst classes ended up attending business school. Now, she thinks that figure is closer to 50 percent.

Samir Ahmad, 25, has worked at Citi since college. This summer, he was promoted to associate, an MBA-level position, in the fixed-income, currencies and commodities division. Despite advice from his older brother that he should attend business school, Mr. Ahmad says he cannot see what he would gain to justify the time. "If I were to spend two years at business school, I'd get an MBA degree, but I think learning a different product or a different group here at Citi would be more valuable,"

To be sure, business school can still be a valuable investment, especially for those who want to change careers. Most schools teach a wellrounded curriculum that exposes students to the full picture of the way the business world works. They are great places to make friends and connections that can help throughout a career. And the top business schools serve as a useful filtering system, placing

> a seal of approval on graduates that can help them find

"Most banking — and that includes private equity — is about deals and about relationships," says Timothy Butler, director of MBA career development programs at Harvard Business School. "That will always be MBA

territory."

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challenge of their jobs,

in addition to the lofty

paychecks.

Yet even some students at top schools like Harvard say the decision to go is tougher now than it likely was two decades ago. "We all struggled with it," says Katie Shaw, 28, who is in her second year of business school there. "It's not only, 'Where do I go to business school?" It's also, 'Do I



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Caldwell Saves Four Shots, Earns Second Shutout of the Year

Soccer, from Page 28

able weather conditions. They also contributed to a high foul count, as MIT committed 30 to Clark's 21.

Clark forward Jenner Alpern came closest to scoring in regulation, as the junior's 22nd-minute shot was cleared off of the line by an MIT defender after sophomore Andrew Ninnemman had rounded Tech keeper Thomas S. Caldwell '09. Engineer forward Chase J. Lochmiller '08 provided the Cardinal and Gray's best scoring chance with a 25-yard drive midway through the second half that forced a save out

of Clark goalkeeper Peter Wise.

The visitors had a golden opportunity to secure victory 2:35 into the game's first overtime session, but Cougar freshman Kyle Klapp was unlucky, as his driven penalty ricocheted off the outside of the right post.

Caldwell finished with four saves to earn his second shutout of the season and seventh of his career. Wise was forced to stop just one shot for his first shutout of the campaign.

MIT will return to the field on Wednesday, Sept. 19 when it will pay a visit to Wentworth Institute of Technology at 7 p.m.

MIT-China Educational Technology Initiative

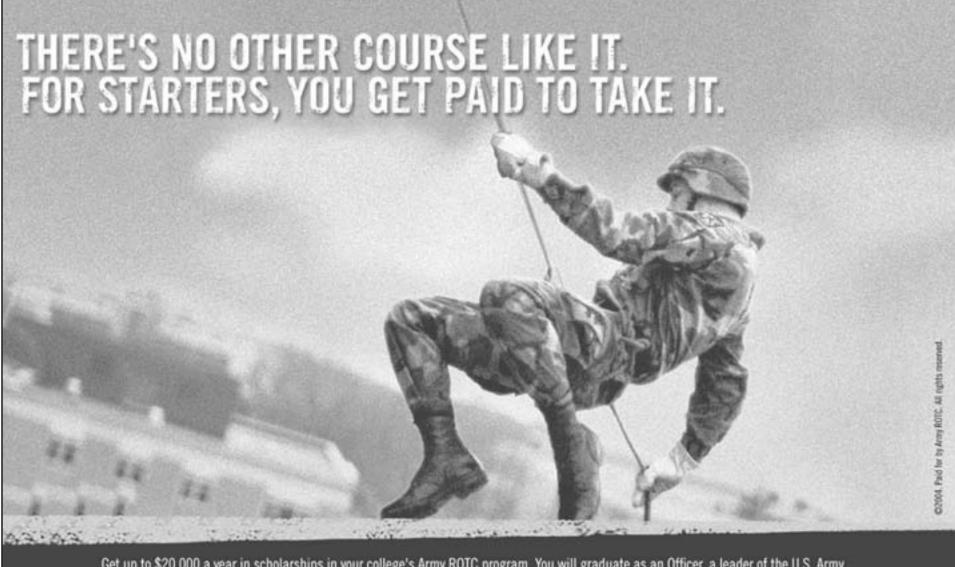
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Aikido Participants Practice Fighting Off Punches and Knives

Aikido, from Page 28

to a punching opponent. The simpler one involved evading the punch, while simultaneously grabbing your opponent and bringing him down. It took me a little while to master, but my partner was considerate of my slow learning curve. She even helped me with my technique so that I could knock her down more easily.

The other two defenses we learned against punching, one of which I tried to reproduce back at Next House to disappointing results, were a little more complex. The first one consisted of pushing the attacker's hand back, grabbing his leg, and pushing him off balance, while the second required the defender to twist the attacker's arms and knock him to the ground. While I could decently perform the moves myself, it was another story when my partner was attacking me. This is because falling properly is very important in Kokikai Aikido. My version consisted of the following: instead of trying to sit as I fell, I'd always attempt to catch myself with my right arm. Therefore, the pain in my right arm as I type this signifies an important lesson in Kokikai Aikido that I won't soon forget.

During the last part of class, we played with knives! Actually, they were just sticks of wood, but we practiced moves to defend ourselves against knife attacks. My favorite part was pretending to rob someone by grabbing him and sticking a "knife" to his chest. (Fellow students, don't be alarmed — the only time I actually use a knife is when I'm cutting my food.) When the "knife" was to my chest, I had to grab the attacker's

wrist and hold it close to my chest. My initial thought was that it was stupid to bring the knife closer to me, but it actually gave me control of the knife and made it easy for me to turn around, crouch down, and knock my attacker down.

The first couple of times, I wasn't so good at controlling the "knife" and would've stabbed myself in a real-life situation. But just as I was getting the hang of the move, the Sensei yelled out something, signifying the end of practice. We bowed to our partners and to the principles hanging at the front of class before walking out of DuPont.

All in all, my experience with the MIT Kokikai Aikido Club was a positive one. I learned how to say the club's name properly, and I learned some cool moves. One of the best parts of the club is how open it is to beginners; the three black belts in the club were happy to help out the less experienced members. The martial arts moves we learned were actually practical and relatively easy-to-learn defensive maneuvers that would be useful to anyone. And, of course, I liked the fact that I didn't get my ass kicked nearly as badly as I thought I would.

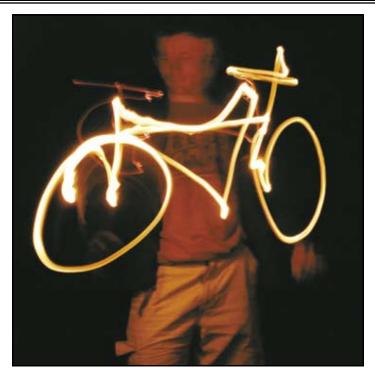
I'd recommend this club to anyone looking to master some self-defense techniques or take up an unpronounceable hobby. With only 15 members, it's small enough that you'll meet everyone and feel comfortable asking for help with challenging techniques. For those who do go, just remember to not be stupid like me and hurt your arm. The MIT Kokikai Aikido Club meets every Monday, Wednesday, and Friday from 7:15–9 p.m.

The MIT Cycling Club hosted the "Wompatuck Whatchamacallit?!" mountain bike race this past Sunday, Sept. 16 in Hingham, Mass.

(left) Zachary A. LaBry '08 draws a bicycle in midair with a still-glowing ember at the end of a stick.

(below) LaBry (foreground) passes teammate Nick C. Loomis G (background) during a rocky downhill section of the race course.

Photography by Omari Stephens





MIT Career Fair 2007 Information Sessions



_	_			MIT Career Fair
Day	Time	Location	Company	2007
Tuesday, 09/18	7:00-8:00PM 7:00-8:00PM 7:00-8:00PM 7:00-9:00PM	4-237 6-120 32-141 32-155	BBN Technologies Procter & Gamble Exxon Mobil Corporation AQR Capital Management	
Wednesday, 09/19	5:00-6:00PM 6:00-7:00PM 6:00-7:00PM 6:00-8:00PM 7:00-8:00PM 7:00-8:00PM 7:00-8:00PM 7:00-8:00PM 8:00-9:30PM 8:00-9:00PM	5-234 4-163 32-144 56-154 4-370 26-204 1-190 36-153 37-212 4-270	Akamai Technologies Corning Incorporated Spansion Inc. Next Jump, Inc. Shell Oil DC Energy Susquehanna Citadel Investment Group Schlumberger Bridgewater Associates	
Thursday, 09/20	5:30-7:00PM 6:00-7:00PM 6:00-7:00PM 7:00-8:00PM 7:00-8:00PM 7:00-8:00PM	1-190 4-146 26-210 4-159 4-163 36-153 56-114	Naval Sea Systems Palantir Technologies Merck & Co, Inc. Expedia, Inc. Netezza Marvell Semiconductor Allstate Insurance Company	
Friday, 09/21	6:00-7:00PM	32-141	Boston Scientific	
Tuesday, 09/25	6:00-7:30PM	32-155	Oracle	

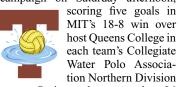
Page 28 THE TECH September 18, 2007

SPORTS

18-8 Win Over Queens

By Jeff Lemieux

John V. Preis '11 continued the phenomenal start to his freshman campaign on Saturday afternoon,



opener. Preis now has a team-best 26

The win was the fifth in a row for the Engineers (5-1, 1-0 CWPA), who are ranked No. 8 nationally among Division III teams in this week's CWPA polls. Queens (1-8, 0-1 CWPA), on the other hand, has now dropped seven straight contests. Michael R. Smith-Bronstein '09

contributed an impressive four tallies of his own to help lead the Cardinal and Gray attack. Devin M. Lewis '10 notched a hat trick, while Mark E. Artz '10 and St. Julien P Rosemond '09 each found the net on a pair of occasions. Morgan S. Laidlaw '08, the team's lone senior, and Spencer D. Williams '11 rounded out the scoring by each netting a single goal. As a result of the scoring on the day, the Engineers now boast five players with double-digit goal totals for the

Nicholas A. Souza '10 stopped 10 shots in earning his fourth victory. He also contributed two steals.

The Engineers return to action in an away match against Harvard University on Thursday, Sept. 20 at

Preis Nets Five Goals, Kokikai Aikido Club Connects Propels No. 8 MIT to Body, Mind With Self-Defense

By Kyle Aaquil Atmore

This is the first in a series of Reporter's Notebooks about MIT club and intramural sports. The Tech will send writers to

ties to provide

Reporter's various activities to manife Notebook readers with

firsthand ac-

Looking back on my brief stint at the Kokikai Aikido Club, I've learned two things. First, playing with pretend knives and flipping people over can be a lot of fun. Second, there's a reason why people say, "Don't try this at home.'

I had the pleasure of attending a meeting of the MIT Kokikai Aikido Club this past Wednesday. Kokikai Aikido is a modern Japanese martial art that teaches coordination of mind and body using self-defense techniques to develop one's internal

energy or Ki, according to the club's Web site.

As I headed to the second floor of DuPont, I discovered that quite a few martial arts clubs meet around the same time. Since the Web site didn't teach me how to pronounce the club's name properly, I had a slightly difficult time finding the right room. How did I ever find my way? Well, I popped my head into several rooms and asked, "What club is this?" until I heard the answer I was looking for. As I walked in, I saw five guys on the mats doing warm-ups being led by black belt counting off in what I assumed was another language.

(It wasn't until we were leaving that I found out she was counting in English but leaving out the consonants to shout more effectively.)

As I took off my shoes and signed a waiver stating that any grievous bodily harm would be my own fault, I noticed a sign at the front of the room with the four basic principles of Kokikai Aikido: Keep One Point

to Develop Calmness, Relax Progressively, Correct Posture in Everything, and Develop Your Positive Mind. Since my journey to find the club took longer than expected. I joined in on the warm-ups a bit late while everyone was stretching and doing some tumbling.

In the middle of my pathetic attempts at rolling and tumbling, two new black belts caught my attention when one of them ran and did an impressive move, jumping high in the air and falling to the ground with a perfect tumble. Once we finished the warm-ups, the real fun started when the high-flying tumbler, who turned out to be the Sensei, moved to the front of the room.

Next came the part of the class in which I feared I would get my ass kicked: the fighting. As Kokikai Aikido is a martial art that employs self-defense techniques, we started with two techniques used in response

Aikido, Page 27



Stormy Weather Creates Defensive Match

By Jeff Lemieux

A hard-fought men's soccer match between conference foes MIT and Clark University ended in a 0-0 tie on

Saturday afternoon at Steinbrenner Stadium, as each team opened its New England Women's and Men's Athletic Conference schedule

with a well-deserved point. The scoreless draw is the first such result for the Engineers since 1996, when they had

two in one season against both Gordon College and Babson College.

The Cardinal and Gray's record now stands at 3-0-1 overall and 0-0-1 in the NEWMAC. Clark, which has played to three straight stalemates, is 1-1-3 overall and 0-0-1 in the confer-

Both teams had difficulty creating scoring opportunities throughout the match, as gusting winds and occasional showers made for unfavor-

Soccer, Page 26



Katherine M. Boothe '09 navigates her way past Vanessa Murphy of Simmons college in last Thursday's field hockey game. The Engineers shut out the Sharks 2-0.



Help us put the world into perspective

Meet us at your school's next career fair.

DATE: September 20, 2007, 10 a.m. - 5 p.m. PLACE: Johnson Athletics Center Bldg. W34

Visit www.NSA.gov/Careers/CiQ for career information.

U.S. citizenship is required for all applicants. NSA is an equal opportunity employer and abides by applicable laws and regulations.







Elizabeth A. Denys '11 competes against Mount Holyoke College this past Saturday, Sept. 15. The Engineers shut out the

UPCOMING HOME EVENTS

Tuesday, Sept. 18, 2007

Women's Volleyball vs. UMass-Dartmouth Women's Volleyball vs. WPI

5 p.m., Rockwell Cage 7:30 p.m., Rockwell Cage

Thursday, Sept. 20, 2007

Women's Soccer vs. Bridgewater State 4 p.m., Steinbrenner Stadium Field Hockey vs. UMass-Dartmouth

6 p.m., Jack Barry Field